2024 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT
NYSDEC Site Number 932053

STAUFFER MANAGEMENT COMPANY SITE
5715 OLD LEWISTON ROAD
LEWISTON, NY 14092

Prepared For:

Stauffer Management Company LLC
1800 Concord Pike
Wilmington DE, 19803

Prepared By:

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Landscape Architecture and Geology, D.P.C
1 University Square Drive, Suite 110
Princeton, NJ 08540

May 1, 2025
Revised August 15, 2025
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LIST OF ACRONYMS

CO	Consent Order
CSM	Conceptual Site Model
DER	Division of Environmental Remediation
DOW	Division of Water
EC	Engineering Control
FZ	Flow Zone
GAC	Granular Activated Carbon
GPM/FT	Gallons Per Minute Per Foot
IC	Institutional Control
NAPL	Non-Aqueous Phase Liquid
NYPA	New York Power Authority
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operation, Maintenance, and Monitoring
PRR	Periodic Review Report
SMC	Stauffer Management Company LLC
SMP	Site Management Plan
SPDES	State Pollution Discharge Elimination System
SSPL	Site-Specific Parameter List
SVE	Soil Vapor Extraction
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

This Annual Operation, Maintenance, and Monitoring Report has been prepared to summarize the operation, maintenance, and monitoring (OM&M) activities performed at the Stauffer Management Company LLC (SMC) site (Site) in Lewiston, New York for the reporting period of January 1, 2024 through December 31, 2024. This report summarizes any significant modifications to remediation operations during the reporting period and additional evaluations completed during the reporting period, presents data that can be used to evaluate and optimize remedial system effectiveness, and provides a periodic review of all institutional and engineering controls (IC/EC) and a site evaluation, per the requirements of the SMP.

The Site is located in the Town of Lewiston, New York, immediately north of the Forebay Canal of the Robert Moses Power Plant and is a former chemical manufacturing facility owned and operated by Stauffer Chemical Company. A site location map is provided in **Figure 1**. Structures associated with the former plant were demolished in the early 1980s. The overall site management and remediation are performed by SMC, with Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) providing day-to-day OM&M of the remediation system. A local sub-contractor, Sevenson Environmental, Inc. (Sevenson), assists with routine operations and performs weekly treatment system site checks. The remediation is being done pursuant to NYSDEC Consent Order (CO) #B9-0137-86-04, effective July 19, 1993.

Currently, the active remedial operations consist of a groundwater extraction and treatment system, including overburden and bedrock extraction wells. A soil vapor extraction (SVE) treatment system for Area A of the Site had been shut off, with approval from the NYSDEC in 2014. The system remained operable until October 2021, at which point it was decommissioned and removed. Two other previously operating SVE systems in Area T-4 and Area C were also similarly decommissioned in 2001 and 2004, respectively.

The major chemicals of concern in the groundwater at the Site have been identified in the following Site-Specific Parameter List (SSPL):

- Benzene
- Carbon disulfide
- Carbon tetrachloride
- Tetrachloroethene
- Trichloroethene
- Chlorobenzene
- Chloroform
- Methylene chloride
- Toluene

The groundwater extraction well network consists of a total of 12 extraction wells, as follows: three overburden/shallow bedrock extraction wells in Area A (DPA-201, DPA-202, and DPA-203);

four extraction wells in bedrock flow zone 10 (EW-4, EW-5, EW-6, and EW-7); two extraction wells in bedrock flow zones 10 and 11 (EW-2 and EW-3); one extraction well in bedrock flow zone 11 (LR-66); one extraction well in bedrock flow zone 12 (OW-3); and one extraction well in bedrock flow zones 12 and 13 (EW-1R). The locations of the extraction wells are shown on **Figure 2**. Underground force mains with secondary containment convey recovered groundwater from the extraction wells to the treatment building.

Extracted groundwater is pretreated using a series of particulate filters and a chemical feed system; contaminant removal occurs via two granular activated carbon (GAC) vessels operating in series that are located in the treatment building. The treated water from the GAC vessels is discharged through an outfall to the New York Power Authority Forebay Canal, located south of the Site. Treated water is discharged in accordance with effluent limits and sampling requirements set by the NYSDEC. Because the Site is being operated under a CO, a State Pollution Discharge Elimination System permit is not required.

The treatment system was re-configured in 2018 to bring the solids settling tank back on-line, to assist with particulate removal. Also in 2018, a chemical feed pilot test was conducted, with the approval of the NYSDEC, to test the effectiveness of chemical addition to reduce the filter clogging issues identified during operation of the system. The chemical feed pilot test indicated that the addition of a combination of disinfectant, bio-dispersion, and anti-scaling agents was successful in reducing the frequency of particulate filter replacement from three times per week to once per week. With NYSDEC approval, Langan implemented and maintained full-time chemical feed operations in February 2019, which continued through 2024. Langan performed several investigations from 2018 through 2023 to enhance the hydrogeological conceptual site model and to provide data to support optimization of the groundwater pump and treat system. As a result, Langan also implemented a number of treatment system upgrades and modifications in November 2020 aimed at optimizing well-specific pumping rates through improved instrumentation and system automation. In 2021, multi-zone extraction well EW-1 was abandoned and replaced by a new extraction well (EW-1R) targeting SSPL mass in two deeper bedrock flow zones. Two other multi-zone extraction wells (EW-2 and EW-3) were modified to target SSPL mass in two shallow bedrock flow zones. In 2023, flow zone 10 extraction well (EW-7) was installed in the footprint of the former Area-A SVE system to delineate and target suspected high concentrations of site contaminants. Additionally, two new monitoring wells (R-80 and IR-80) were installed to further evaluate the horizontal and vertical distribution of contaminant mass in the northwest corner of the Site that was previously determined to be concentrated in the deeper bedrock flow zones 12 and 13.

Approximately 13.9 million gallons of groundwater were extracted, treated, and discharged in 2024. This volume is approximately 2% higher than the amount extracted in 2023 (13.6 million gallons). However, the calculated total contaminant mass removed by the groundwater extraction

system in 2024 was approximately 557 pounds, which is less than that estimated to be removed in 2023 (748 pounds). Decreases in mass removal efficiency were noted at extraction wells EW-5 and EW-6. Mass removal efficiency was noted to be similar to that observed in 2023 at extraction wells EW-2, EW-3, EW-4, and EW-7. DPA-201 continues to yield negligible volumes of groundwater. Discussion and associated figures presenting groundwater flow characteristics and chemical dot-concentrations are presented herein for each flow zone (also identified as FZ) designated at the Site. The current extraction well configuration provides hydraulic capture across the Site and indicates that the extraction system continues to be effective at both hydraulic containment and contaminant mass removal.

1.0 INTRODUCTION

This Annual Operation, Maintenance, and Monitoring Report has been prepared to summarize the operation, maintenance, and monitoring (OM&M) activities performed at the Stauffer Management Company LLC (SMC) site (Site) in Lewiston, New York for the reporting period of January 1, 2024 through December 31, 2024. The report summarizes any significant modifications to remediation operations during the reporting period and additional evaluations completed during the reporting period, presents data that can be used to evaluate and optimize remedial system effectiveness, and provides a periodic review of all institutional and engineering controls (IC/EC) and a site evaluation, per the requirements of the SMP.

1.1 Site Background

The Site is located in the Town of Lewiston, New York, immediately north of the Forebay Canal of the Robert Moses Power Plant. **Figure 1** depicts the location of the Site, **Figure 2** depicts the layout of the Site, and **Figure 3** depicts the Site feature areas. The Site is the location of a former chemical manufacturing facility owned and operated by Stauffer Chemical Company. The former chemical manufacturing plant produced metallic aluminum from about 1900 to 1930. From 1930 to 1976, the plant produced carbon tetrachloride, parachlorothiophenol, and various metal chlorides; methylene chloride and tetrachloroethene were also repackaged from bulk during this time period. Carbon disulfide was used in the synthesis of carbon tetrachloride. Two disposal areas (Areas B and C) were used by Stauffer Chemical Company in the 1970s for disposal of inert materials, including broken concrete, graphite, sand, sulfur, wooden pallets, metal oxides, and road and yard sweepings. Chemical operations at the facility ceased in 1976 and structures associated with the former plant were demolished in the early 1980s. Stauffer Chemical Company was divested in 1987, and Atkemix Thirty-Seven Inc., a subsidiary of Stauffer Management Company, became owner of the Site. In 2000, Stauffer Management Company and Atkemix Thirty-Seven Inc., restructured into a limited liability company that is now known as Stauffer Management Company LLC (SMC), a wholly owned subsidiary of AstraZeneca.

In 1995, in accordance with Consent Order (CO) #B9-0137-86-04, SMC initiated construction of soil and groundwater remedial treatment systems. At that time, the treatment building was erected to house a treatment system for extracted groundwater and a soil vapor extraction (SVE) treatment system for Area A. The Area A SVE system was decommissioned and removed from the Site in October 2021. A second SVE treatment system, located in Area C, was mounted in a trailer location off site, beyond the southeast corner of the SMC property. SVE operations at Area C were discontinued in May 2004, and the Area C SVE system was decommissioned in July 2004. A third SVE system at Area T-4 was also installed in 1995, operated until 2000, and decommissioned in September 2001. Note that Area B was a historical landfill located beyond

the southeast corner of the Site used for the disposal of inert materials. Area B material was disposed of off-site and investigations determined no need for further remediation.

The major chemicals of concern in the groundwater at the Site have been identified in the following Site-Specific Parameter List (SSPL):

- Benzene
- Carbon disulfide
- Carbon tetrachloride
- Tetrachloroethene
- Trichloroethene
- Chlorobenzene
- Chloroform
- Methylene chloride
- Toluene

These chemicals have also historically been detected at varying concentrations in groundwater, subsurface soils, seeps, and surface water run-off at the Site and its immediate vicinity.

1.2 Remedial System Descriptions

The only remedial system that existed and operated at the Site during this reporting period was the groundwater extraction and treatment system.

The previously decommissioned SVE systems, as well as the groundwater extraction and treatment system, are briefly described in the following sections.

1.2.1 Soil Vapor Extraction Systems

Area A

Area A occupies approximately 136,500 square feet near the center of the property, as shown on **Figure 3**. With the approval of the NYSDEC, operations of the Area A SVE system were discontinued in August 2014. The SMP, submitted to the NYSDEC on May 25, 2017, included provisions for removing the Area A SVE system. Approval of the updated SMP, including the OM&M Plan within, was received from the NYSDEC on June 3, 2021. With this approval, the Area A SVE system was decommissioned and dismantled in October 2021. The remedial system at Area A used a combination of soil vapor and groundwater extraction, consisting of 39 SVE wells, three dual-phase groundwater/SVE wells, and a multi-layer cover comprised of a polyvinyl chloride geomembrane liner, a geotextile cushion and crushed stone.

Area C

Area C occupies approximately 19,350 square feet beyond the southeast corner of the site property, as shown on **Figure 3**. Area C is the location of one of the landfills previously

used by Stauffer Chemical Company. With the approval of the NYSDEC, operations of the Area C SVE system were discontinued in May 2004; the SVE system was subsequently decommissioned and removed in July 2004. The SVE wells were plugged and abandoned in accordance with the NYSDEC regulations in December 2004.

Area T-4

Area T-4 occupies approximately 11,500 square feet and is located southwest of the treatment building, as shown on **Figure 3**. With approval from the NYSDEC, the Area T-4 SVE system was decommissioned and removed in September 2001. Dual-phase well T-4 (also known as DPT-261) was removed from service as an SVE well in 2001. It remains a monitoring well for the site groundwater extraction system; however, there was an insufficient amount of water in the well in 2024 and groundwater was not extracted nor was a groundwater sample collected.

1.2.2 Groundwater Extraction and Treatment System

The groundwater extraction well network consists of three overburden/shallow bedrock extraction wells in Area A (DPA-201, DPA-202, and DPA-203), four extraction wells in flow zone (FZ) 10 (EW-4, EW-5, EW-6, and EW-7), two extraction wells in FZ-10 and FZ-11 (EW-2 and EW-3), one extraction well in FZ-11 (LR-66), one extraction well in FZ-12 (OW-3), and one extraction well in FZ-12 and 13 (EW-1R). EW-7 was installed in October 2023 to further delineate and to recover contaminant mass more effectively in the source area. EW-1R was installed in August 2021, replacing extraction well EW-1, with a more focused open interval across bedrock FZ-12 and FZ-13; EW-1 was abandoned. Similarly, the open borehole intervals of EW-2 and EW-3 were also modified in August 2021, such that only bedrock FZ-10 and FZ-11 were intersected, for more targeted groundwater extraction and hydraulic containment. The locations of the extraction wells are shown on **Figure 2**. Underground force mains with secondary containment convey extracted groundwater from the wells to the treatment building. The groundwater treatment system is currently housed in the south side of the original treatment building and in the northwest addition to the building.

Groundwater from each of the extraction wells is pumped into the groundwater treatment system. The major components of the treatment system are listed below:

- **Solids Settling Tank**: A 1,500-gallon conical bottom tank was installed in 2009 to provide solids settling prior to the influent water entering the treatment system. This tank replaced a non-aqueous phase liquid (NAPL) separator tank that had deteriorated. Phase separation is not required at the Site, as no NAPL has been observed since the initial system operations. This tank was replaced in June 2024.

- **System Feed Tank**: A process tank that is used to accumulate water from the solids settling; tank serves as an equalization tank.
- **System Feed Pump**: Pumps water from the feed tank through the rest of the treatment system; controlled by a variable frequency drive.
- **Chemical Feed System**: Three pumps that are responsible for the injection of three different treatment reagents designed to reduce the volume of, and enhance the removal of, suspended solids in influent water (disinfectant [Kroff 153SL], bio-dispersant [Kroff 164DL], and anti-scalant [Kroff 131BWL]).
- **Bag Filters**: Groundwater is pumped through fourteen 25-micron bag filters (consisting of two seven-bag round filter vessels) operated in parallel to prevent solids from clogging the granular activated carbon (GAC).
- **GAC Vessels**: After the bag filters, the groundwater passes through two 10,000-pound GAC adsorption vessels operated in series. The 10,000-pound GAC vessels were installed in 2014 as replacements for two original 20,000-pound GAC adsorption vessels.

The treated water from the GAC units is then discharged through an outfall to the New York Power Authority (NYPA) Forebay Canal, located south of the Site. Treated water is discharged in accordance with effluent limits and sampling requirements set forth by the NYSDEC. Because the Site is subject to a CO, a State Pollution Discharge Elimination System (SPDES) permit is not required.

2.0 SITE DESCRIPTION

2.1 Physical Setting

The Site is located at 5715 Old Lewiston Road in Lewiston, New York. A site location map showing the Site on a United States Geological Survey Topographic Map is provided as **Figure 1** in which the most prominent features near the Site are identified. The Site is bounded on three sides by hydroelectric power-generating facilities (built *circa* 1960) operated by the NYPA. These facilities consist of the following:

- The Robert Moses Niagara Hydroelectric Power Station located to the west of the Site;
- The Lewiston Pump Generating Plant and Lewiston Pumped Storage Reservoir located to the east of the Site; and
- The Forebay Canal located along the Site's southern property boundary.

The Forebay is about 0.8 miles long in total and varies in width from about 500 to 1,000 feet. The water surface elevation in the Forebay is typically about 50 to 60 feet lower than the ground

surface of the Site. Also prominent is the gorge of the Lower Niagara River, which is located to the west of the Site. The Niagara River flows through the gorge from south to north. The gorge begins at Niagara Falls and ends seven miles down-river at the Niagara Escarpment. The Site is located about five miles down-river from the Niagara Falls. The base of the gorge is about 300 feet lower in elevation at its closest point to the Site.

The Gate of Heaven Cemetery is located north of the Site. Interstate 190, the Niagara Thruway, is located east of the Site. State Route 104 is located west of the Site.

2.2 Site Remediation History

As summarized in the approved SMP (June 2021), potential soil and soil vapor exposures are controlled by land-use restrictions contained in a recorded environmental easement and by site management procedures. Potential migration via overland flow and surface water drainage are controlled by site grading and vegetative cover. Potential on-site groundwater exposures are controlled by the environmental easement, which prohibits use of groundwater underlying the Site unless treated to render it safe for its intended use. Potential off-site migration of impacted groundwater is controlled via the operation of the groundwater extraction and treatment system.

The groundwater extraction and treatment system has been in operation since 1995. The groundwater extraction network currently consists of 12 extraction wells (EW-1R, EW-2 through 7, LR-66, OW-3, DPA-201, DPA-202, and DPA-203). Total system flow varies seasonally between 10 and 40 gallons per minute and typically averages between 15,000 and 57,000 gallons per day. Over time, treatment system operations have been impacted by clogging and diminishing yield from the extraction well network. Additionally, removal efficiency (i.e., pounds of contaminant mass removed per gallon of extracted groundwater) has generally been declining since the early 2000s. A declining trend in treatment system performance is common in nearly all systems and is typically observed as the remaining amount of contaminant mass is diminished over time. However, recent and ongoing steps have been taken to combat this declining trend and improve system efficiency, to the extent possible, as discussed further herein.

2.3 Monitoring/Extraction Well Network

The Site has 108 total wells (including both extraction and monitoring wells) of various depths. The well locations are shown on **Figure 2**. **Table 1** provides an inventory of all monitoring and extraction wells, and the respective well construction information observed by Langan and gathered from the review of historical environmental reports. In some instances, the well completion details (e.g., screen depth) are not available.

2.4 Site Hydrogeology

Field investigations were performed from 2018 through 2023 to update the understanding of the Conceptual Site Model (CSM). A brief discussion of the CSM investigations is provided herein. Details of the CSM investigations performed through 2019 were provided to the NYSDEC in an Updated Hydrogeologic CSM Report, dated July 29, 2020. Additional investigations were performed in 2021 to supplement the understanding of the CSM hydrogeologic framework to enable a more efficient approach to mass removal and hydraulic containment. Details of these supplemental investigations performed through 2021 were provided in 2021 Annual OM&M report, dated December 23, 2022. An important finding of the CSM investigations is the refinement of the bedrock groundwater flow zones at the Site.

The thickness of the overburden varies from approximately 15 to 20 feet, and it exhibits a connection to the shallow bedrock of the upper Lockport Formation. Because the overburden and shallow bedrock are connected, and multiple wells in the monitoring network are screened across both units, they are considered to be one zone referred to as the overburden and shallow bedrock zone. The water table is encountered in the overburden and shallow bedrock zone at depths varying from 13 to 30 feet below ground surface.

Four continuous, near-horizontal flow zones (FZ-10 through FZ-13) have been identified below the overburden and shallow bedrock zone, within the upper approximately 150 feet of bedrock. The shallowest identified bedrock flow zone (FZ-10) lies within the Lockport Dolomite. Flow zone 11 is deeper and appears to coincide with the contact between the Lockport Dolomite and the underlying Rochester Shale. FZ-10 and FZ-11 coincide with flow zones identified in previous regional studies. The deeper bedrock flow zones lie within the Rochester Shale (FZ-12) and Irondequoit Limestone (FZ-13) and are deeper than fractures identified in previous regional models. This identification of flow zones is a refinement of the previous bedrock hydrogeologic characterization that was based on more generalized lithological/hydro-stratigraphic designations. The geophysical and hydraulic properties of the identified flow zones vary laterally throughout the Site. FZ-10 is the most transmissive of the four identified zones, with a measured specific capacity of 0.23 gallons per minute per foot (gpm/ft) in extraction well EW-2. The specific capacity of the other flow zones was approximately an order of magnitude lower as measured in EW-2. Supplemental testing performed in 2021 for six FZ-12 wells (R-48, R-50, R-60, R-61, R-62, and R-68) confirmed relatively low specific capacity measurements, varying from 0.002 to 0.057 gpm/ft, one to two orders of magnitude lower than the specific capacity measured for FZ-10.

Groundwater head potentials are highest in the shallowest identified flow zones, becoming progressively lower in successively deeper flow zones. This indicates that there is a downward vertical groundwater flow potential at the Site.

Because of fluctuating surface water elevations in the southern adjacent Forebay, groundwater elevations in wells at the Site have been observed to vary by up to 14 feet daily. Surface water levels in the Forebay have been observed to vary by up to 28 feet daily. The influence of Forebay water level fluctuations on Site groundwater levels increases with proximity to the Forebay and is most pronounced in FZ-10 and FZ-11.

In the shallower zones (FZ-10 and FZ-11), under non-pumping conditions, the horizontal component of groundwater flow is generally (1) to the south when water levels are lower in the adjacent Forebay Canal, and (2) stagnant/flat when water levels are higher in the Forebay. Conversely, the horizontal component of groundwater flow in the deeper zones (FZ-12 and FZ-13) under non-pumping conditions was generally to the north, toward the Site and away from the Forebay Canal.

Under non-pumping conditions, before being replaced/modified, the multi-zone extraction wells EW-1, EW-2, and EW-3 appeared to act as vertical conduits for groundwater flow downward from FZ-10 and FZ-11 into FZ-12 and/or FZ-13. As further described in Section 3.2 below, changes were made in 2021 to reduce the opportunity for vertical migration through these multi-zone extraction wells. EW-1 was replaced with a new well (EW-1R), which is only open to FZ-12 and FZ-13. EW-2 and EW-3 were partially grouted and are now only open to the shallower flow zones (FZ-10 and FZ-11). These three wells now target the zones where the highest SSPL concentrations were observed during packer testing and vertical profile sampling in 2018.

Under pumping conditions, horizontal groundwater flow converges on the recovery wells in FZ-10, FZ-11, and FZ-12, during both high and low water level stages of the Forebay Canal. Based on a pumping test performed at EW-2 in 2018, pumping influence was generally observed to be more extensive in FZ-10 and FZ-11 than in FZ-12. However, a pumping test performed at newly constructed EW-1R, which is open only to FZ-12 and FZ-13, indicated that pumping influences extended westward to the grout curtain and as far east as EW-3 (approximately 860 feet away).

Two bedrock grout curtains, consisting of evenly spaced grouted boreholes, are present on or near the SMC property. According to the 1991 Site Investigation Report by Conestoga-Rovers & Associates, the grout curtains were installed during construction of the Niagara Hydroelectric Power Station to reduce the volume of groundwater discharging to the Forebay Canal and the Niagara Gorge, thereby reducing hydraulic pressure on the face of the canal and the gorge. A system of vertical drainage boreholes located downgradient of the grout curtain along the face of the gorge provides an added layer of relief of pressure from groundwater that may penetrate the grout curtain. Those boreholes empty into a drainage tunnel which is at an elevation near the base of the gorge; the tunnel empties into the Niagara River.

FZ-10 and FZ-11 intersect the Forebay (east-west) grout curtain and Forebay Canal and show a highly correlated water level-fluctuation response with continuously changing water levels in the Forebay Canal. Deeper zones FZ-12 and FZ-13 pass below both features and have shown more muted water level response to fluctuating water levels in the Forebay Canal. FZ-11 is potentially more connected to the Forebay than shallower flow zone FZ-10 because there are fewer grout holes penetrating to the depth of FZ-11. For groundwater flow near the Forebay grout curtain, there is evidence of localized effects, such as elevated groundwater potentials and altered groundwater flow directions around or away from the less permeable grout curtain. The effects on groundwater flow also apply to potential contaminant migration, as the grout curtain appears to impede groundwater movement but is not an impermeable barrier.

Along the Niagara Gorge, FZ-10, FZ-11, FZ-12, and FZ-13 intersect the north-south grout curtain and vertical drainage boreholes. Groundwater that penetrates or bypasses the grout curtain is likely directed into the drainage borehole system and down to the drainage tunnel.

3.0 GROUNDWATER EXTRACTION SYSTEM OM&M ACTIVITIES

The groundwater extraction system is utilized for capture of on-site groundwater and includes the extraction and monitoring well networks, submersible pumps, conveyance piping, treatment media, and associated power and instrumentation. Based on the observations made and the data collected during the reporting period, the groundwater extraction system operated in accordance with the OM&M Plan. A summary of the groundwater extraction system OM&M for 2024 is provided in the following sections.

3.1 Summary of Operations

The groundwater extraction system operated in automatic mode throughout the reporting period, with visits to the Site by Sevenson at least twice per month to: confirm pumping operations; conduct system inspections; and perform bag filter change-outs, system process water sampling, and various other OM&M activities.

Periods of non-pumping or reduced extraction rates occurred from the following activities:

- Extraction well disinfection/cleaning event completed prior to the annual site-wide groundwater sampling event in October 2024.
- The pump at OW-3 was shut down on April 3, 2024, due to pneumatic control failure, caused by poor compressed air quality (moisture and debris found in the air lines) and corrosion; the pump was inoperable until the components were replaced on May 16, 2024. The pump was shut down again on June 26, 2024, with similar issues until the pump and controls were completely replaced on February 25, 2025. Pumping at OW-3

remained off after replacement because of a crack in the piping, which is scheduled for replacement in the second quarter of 2025.

- The pump at EW-7 has experienced poor recovery rates throughout 2024. The pump and components are being evaluated for repairs or replacement.
- Normally scheduled maintenance activities consisting of weekly bag filter change-outs, quarterly GAC exchanges, and short duration site power outages.
- The system was shut down in June 2024 for system infrastructure upgrades consisting of replacing the conical bottom solids settling tank, cradle, and associated piping. The entire system was off for a period of approximately five days.

Outside of these downtimes, all extraction wells except DPA-201 and DPA-203 were operational at full and continuous capacity throughout the reporting period. DPA-201 and DPA-203 remained off-line throughout the reporting period due to a lack of sufficient groundwater in the wells to support pumping. Depth to groundwater continues to be measured periodically at these wells; the pumps will be recommissioned when groundwater levels return to a suitable level for sustained pumping.

3.2 Extraction System Modifications

There were no modifications of the extraction and monitoring wells, treatment media, and associated power and instrumentation completed during the reporting period. New higher capacity pumps were installed in extraction wells EW-2 and EW-3 during the annual extraction well disinfection event in September 2024. Piping inside the treatment building was damaged and repaired in August/September 2024 when abandoned piping fell and broke pipes.

3.3 Mass Removal

Mass removal calculations for the extraction wells are summarized in **Table 2**. The mass removal was calculated using the extraction volumes from individual well totalizer readings and the analytical results from the annual groundwater sampling event. The percent removal for each compound is displayed for each well, depicting how much of the total mass of each compound was removed at each well. The efficiency of mass removal has been declining at the Site since the early 2000s. Although such declines are typical of a system this age, the recently completed CSM field investigations found that adjustments in pump operation could possibly improve recovery by minimizing turbulence conditions in the wells that are conducive to mineral precipitation. The system upgrades incorporated in November 2020 were designed to minimize these conditions. The changes in extraction intervals made in 2021 at EW-1R, EW-2, and EW-3 were also designed to further combat this typical decline in system efficiency and more specifically target remaining SSPL mass.

There is a discrepancy between the groundwater extraction volume as measured by the individual extraction well totalizers and the treatment system combined effluent totalizer for 2024. The treatment system combined effluent totalizer reading shows that 8 million gallons of groundwater were extracted, treated, and discharged during 2024, while the sum of individual well flow meters indicates 13.9 million gallons of groundwater were extracted, representing a 42% discrepancy. Since Langan assumed responsibility of the site operation and maintenance, most of the flow transmitting indicators have been replaced and/or upgraded with electromagnetic models that contain no moving parts in contact with the water and are less likely to foul as compared to other types of flow meters. However, the site water quality does have an effect on these instruments. The individual well flow meters were replaced as part of the system upgrades completed in 2020. The combined effluent flow meter was replaced in 2018. The cause(s) for this discrepancy was determined to be the fouling of both the influent and effluent flow meters and is being actively mitigated by more frequent routine maintenance and cleaning. Langan continuously tracks and compares the sum of all the influent flow rates and totals, and effluent flow rate and total as a redundancy and accuracy check.

3.3.1 Extraction Wells EW-1R through EW-7

The total contaminant mass removal from EW-1R through EW-7 is estimated to be 529 pounds and represents more than 90% of the mass recovery for the system for 2024. Approximately 13,700,000 gallons of groundwater were extracted from these wells. The groundwater extraction volumes for EW-5 and DPA-201 are presented together as a cumulative volume (as the effluent lines are joined and metered together); however, DPA-201 did not pump during this reporting period because it did not have sufficient water. The removal efficiencies for each of the EW wells are provided in the table below.

Extraction Well	**Removal Efficiency (pounds/1,000 gallons)**
EW-1R	0.71
EW-2	<0.01
EW-3	0.02
EW-4	<0.01
EW-5/DPA-201	<0.01
EW-6	0.10
EW-7	0.06

The remaining contaminant mass removal totaling less than 10% comes from the other extraction wells, as discussed in the following sections.

3.3.2 Area A Dual Phase Wells DPA-201, DPA-202, and DPA-203

Groundwater extraction from the shallow bedrock wells was limited in 2024 because of low water levels. Extraction volumes for DPA-201 (a shallow well) are accounted for in the EW-5 flow measurement because the wells share a common flow meter, but the pump in DPA-201 did not operate in 2024 due to insufficient well yield, as has been the case since 2019. Approximately 139,000 gallons of groundwater were extracted from DPA-202 in 2024. The new extraction well EW-7, located near DPA-203, was shown to influence the yield of DPA-203. As such, the pump and existing air and groundwater conveyance infrastructure for DPA-203 has been repurposed to connect EW-7 to the groundwater treatment system. DPA-203 is currently off-line and will continue to be monitored for extractable groundwater levels and sampled during the annual groundwater sampling event. Based on the extraction volume and the annual groundwater sampling data, 15 pounds of contaminant mass were recovered from DPA-202 in 2024. The contaminant mass removal efficiency for DPA-202 was 0.11 pounds per 1,000 gallons.

3.3.3 Area T-4 Extraction Well DPT-261 (T-4)

Extraction well DPT-261 did not operate during 2024 because of a lack of recoverable water, as has been the case since 2019. There was an insufficient amount of water during the 2024 groundwater sampling event and a groundwater sample could not be collected from this well.

3.3.4 Extraction Well OW-3

Despite the operational issues, groundwater extraction from OW-3 in 2024 is similar to 2023. Approximately 10,500 gallons of groundwater were recovered from the well during 2024. Mass removal at OW-3 increased due to the much higher concentrations of all SSPL VOCs typically detected in this well, with approximately 10.7 pounds of contaminant mass recovered from the well. The mass removal efficiency for the well was approximately 1.0 pounds per 1,000 gallons.

3.3.5 Extraction Well LR-66

Groundwater extraction volume from LR-66 was approximately 91,600 gallons for 2024. Approximately 1.90 pounds of contaminant mass were removed by LR-66, providing a mass removal efficiency of 0.02 pounds per 1,000 gallons. Most of the contaminant mass removed from LR-66 was carbon tetrachloride.

3.4 Routine Maintenance

Langan's on-site subcontractor, Sevenson, performed weekly site inspections and grounds maintenance, and provided general housekeeping services. Sevenson was also responsible for:

- Performing vegetated cap inspection and maintenance, as needed.
- Performing the annual site inspection.
- Performing the annual groundwater sampling event.
- Assisting with the annual extraction well disinfection and redevelopment event.
- Assisting with well repairs/maintenance.
- Assisting with pump replacement/repair activities and related plumbing and/or electrical hook-ups.

This subcontractor also provided landscaping, road repair, and snowplow services, and assisted in all dumpster and heavy equipment needs.

3.5 Site-wide Inspection Form

In 2024, the inventory of site monitoring wells was completed as part of the annual monitoring event. As such, it was also updated, as applicable, based on observations made during gauging performed as part of the annual monitoring event in 2024. A copy of the Sitewide Inspection Form is included as **Appendix C**. The Site-wide Inspection Form indicates that the wells are in generally good condition, with cosmetic repair items being further evaluated. Any necessary repairs will be completed before the next sampling event.

4.0 GROUNDWATER TREATMENT SYSTEM OM&M ACTIVITIES

The groundwater treatment system refers to operations inside the treatment building including a solids settling tank, equalization tank, transfer pump, chemical feed system, bag filtration, and contaminant mass removal via GAC. Based on the observations made and the data collected during the reporting period, the groundwater treatment system operated in accordance with the OM&M Plan. A summary of the groundwater treatment system OM&M for 2024 is provided in the following sections.

4.1 Summary of Operations

The groundwater treatment system operated in automatic mode throughout the reporting period, with visits to the Site at least twice per month to conduct various OM&M activities. These activities included confirming pumping operations; conducting system inspections; and

performing bag filter change-outs, system process water sampling, and various other OM&M activities.

Intermittently, periods of non-pumping or reduced extraction rates occurred from the following activities:

- Extraction well disinfection/cleaning event completed from August 28 through September 10, 2024.
- Weekly bag filter change-outs, quarterly GAC exchanges, or short duration site power outages.
- The conical bottom tank replacement in June 2024.

4.2 Maintenance, Inspection, and Monitoring Activities

A summary of the maintenance, inspection, and monitoring activities, including routine treatment system maintenance activities, modifications to the treatment system, general treatment system process monitoring and treatment system performance monitoring, is provided below.

4.2.1 Routine Treatment System Maintenance

Routine inspection and maintenance of the groundwater treatment system is performed weekly during visits to the Site. Routine weekly inspections and maintenance include:

- General visual inspection of equipment for leaks, overflows, or malfunctions.
- Inspection of process-indicating instruments.
- Recording of operating conditions in log sheet.
- Correction of operational problems.
- Addressing health and safety issues.
- General housekeeping.
- Replacement of bag filters, the need for which is indicated by differential pressure across the filters.
- Repair or replacement of damaged parts.

All inspections are recorded in the OM&M logbook maintained on site. Treatment system operations were suspended periodically throughout 2024 to perform routine maintenance on the system components. The periodic maintenance shutdowns involved cleaning, inspection, and maintenance activities associated with GAC exchanges, bag filter change-outs, and conveyance piping and instrumentation repairs/upgrades.

4.2.2 Treatment System Modifications

No upgrades or modifications were made to the treatment system during this reporting period; however, the upgrades and modifications previously incorporated during the 2020 reporting period were further refined and adjusted, as needed, based on system operations. These upgrades were focused on providing more reliable, safe, and efficient operations of the treatment system.

As preventative maintenance, the conical bottom solids settling tank was replaced along with the cradle and associated piping. This plastic tank was becoming noticeably brittle and slightly bulging at the bottom from age and years of being in service. The metal cradle was also replaced as the steel had begun to rust and reduced the structural cross section. Attached PVC pipe that was noticeably aged was also replaced during the installation of the new tank.

4.2.3 Groundwater Treatment System Process Monitoring

Groundwater treatment system extraction and discharge data from 2024 is presented in **Appendix A**. The well-specific and total system extraction flow rates and totalizer readings were collected on a weekly basis, at a minimum. Samples for laboratory analysis were collected routinely from the groundwater treatment system. Samples were collected twice a month from the mid-carbon sampling point. The groundwater influent and system effluent were sampled monthly, at a minimum. These samples were analyzed for the SSPL compounds. Process monitoring sample analytical results are presented in **Appendix A**. Influent, mid-carbon, and effluent data are summarized in Appendices A-1 to A-3, respectively.

The 2024 analytical data for the monthly influent groundwater samples are presented in Appendix A-1. The data indicate that typically carbon tetrachloride, carbon disulfide, and chloroform are detected in high concentrations in the influent. The 2024 analytical data for the bi-weekly mid-carbon groundwater samples are presented in Appendix A-2. The data indicate that the results are generally non-detect or indicate low (< 100 parts per billion) total SSPL compounds except when breakthrough occurs.

The combined influent sample, collected on December 16, 2024, had a total VOC concentration more than two orders of magnitude lower than any other monthly influent sample concentration. This is likely because of the diminishing extraction rates in wells with typically high VOC concentrations, such as EW-1R, EW-6 (was not pumping on December 16, 2024), and DPA-202, while extraction wells with generally lower VOC concentrations experienced high flow rates, specifically EW-2 and EW-3.

Three GAC exchanges were performed in 2024, with one 10,000-pound bed exchanged each time. These exchanges took place on March 29, May 17, and November 12, 2024. Note that for each of the three GAC exchanges performed in 2024, the lead carbon bed was exchanged and the former lag bed became the lead bed, by manipulating valve positions in the piping manifold.

The 2024 analytical data for effluent samples collected from the groundwater treatment system are presented in Appendix A-3. The effluent sample results for 2024 show that no SSPL compounds were detected above the discharge limit.

4.2.4 Additional Monitoring of Treated Effluent

In addition to the monthly effluent sampling and analysis for SSPL compounds, groundwater treatment system effluent samples were also collected quarterly. The list of quarterly parameters and associated discharge limits were originally established in an SPDES permit issued by the NYSDEC Division of Water (DOW) in 1995 when facility groundwater treatment operations commenced.

Since that time, facility operations have been performed in accordance with the July 19, 1993 CO executed by the NYSDEC as part of the New York State Superfund program, with oversight by the agency's DER. With respect to facility effluent discharge, the DOW does not have regulatory authority over discharges from a State Superfund Site. Instead, the DER is responsible for ensuring compliance with facility effluent criteria and for approval of all submittals. For the SMC facility, DER requires monthly effluent sampling for SSPL compounds and quarterly effluent sampling for a combined list of SSPL compounds and other SPDES parameters. To differentiate it from the facility's monthly effluent sampling, the quarterly sampling event is known as the "SPDES sampling" event.

Appendix B presents the quarterly SPDES sample results for 2024. Note that since the monthly effluent samples include analyses of the SPDES SSPLs (the required list of volatile organic compounds [VOCs]) on a more frequent basis than quarterly, the VOC component of the SPDES requirements is met by the monthly results shown in Appendix A-3. As noted above, no SSPL compounds were detected above the discharge limit.

Appendix B presents the list of SPDES semi-volatile organic compounds, metals and wet chemistry parameters, the associated discharge limits, and the analytical laboratory results of the 2024 quarterly SPDES sampling events for the facility. Discharge limits are concentration-based with the exception of metals, for which mass limits have been established. To calculate average daily mass discharge rates, the laboratory

concentrations are multiplied by the daily average effluent flow for the treatment system and converted into pounds per day. As noted in **Appendix B**, there were no parameters detected in excess of the established discharge limits.

4.2.5 Facilities, Structures, and Grounds Maintenance

The facilities, structures, and grounds are inspected and maintained regularly as specified in the OM&M Plan. These inspections are carried out during routine site visits. These routine inspection tasks include checking the appearance of the grass, driveways, walkways, fencing, lighting, and containment areas. Inspection and maintenance tasks inside of the treatment building include checking the appearance of the walls, floors, ceiling, doors, walkways, emergency equipment, lights, sumps, and equipment support structures. Any problems or deficiencies are noted in the OM&M logbook and are promptly addressed.

4.2.6 Unscheduled Maintenance

Unscheduled maintenance was performed in 2024, as necessary. Examples of the unscheduled maintenance activities performed include process equipment piping repairs, instrumentation calibration and/or replacement, and minor electrical diagnostics and repairs.

Following a system restart, conveyance piping mounted to a wall, fell resulting in irreparable piping and pipe mount damage. The pipe and wall mounts that were damaged, as well as components that were in a similar condition to those that had failed, were replaced in kind.

5.0 GROUNDWATER LEVEL MONITORING AND CHEMISTRY

5.1 General Data Collection Methods

Groundwater flow potential and observed characteristics within the boreholes, and associated discrete fracture flow zones, are summarized below. Groundwater flow potentials are presented in **Figure 4** through **Figure 7**. Extraction wells were included for each flow zone that is intersected by the extraction well screen. In some cases, extraction well screens intersect more than one flow zone.

During the 2018 CSM investigation field activities, significant groundwater level fluctuations were observed in bedrock monitoring wells, which correlate with water levels in the adjacent Forebay Canal. Because of these dynamics and daily groundwater-level fluctuations, Langan concluded that solely manual gauging data cannot be used to prepare potentiometric surface maps that

represent any distinct phase in the cycle of fluctuating groundwater levels within the upper bedrock flow zones, including FZ-10 and FZ-11. Therefore, potentiometric surface maps are no longer being prepared for those zones using manual water level gauging data. Instead, groundwater flow and dynamics are being assessed in FZ-10 and FZ-11 using pressure/head readings obtained at short intervals (hourly) for representative wells in each zone using pressure transducers. In 2022, the wells chosen to represent FZ-10 were W-16L, W-18L, W-19B, W-50L W-65, W-66L, W-67L, and W-70L; the wells chosen to represent FZ-11 were LR-2, LR-20, LR-48, LR-50, LR-61, and LR-62. Pressure transducers were deployed in these wells on November 29, 2023 and retrieved and downloaded on October 8, 2024. Transducer pressure readings were converted to groundwater head elevations (datum NAVD 88) using manual gauging data obtained throughout the monitoring period. Water level gauging data for this same monitoring period were also requested and obtained for the Forebay Canal from the NYPA and converted to datum NAVD 88. The combined data were plotted on hydrographs that are provided herein in **Appendix D**. The 2024 hydrograph data indicated that the pump and treat system, when operating, was maintaining hydraulic control in bedrock flow zones 10 and 11, with significant pumping influence observed in key monitoring wells within each zone (as observed in connection with suspension and resumption of pumping during the annual extraction well maintenance activities in 2024), and groundwater elevations being generally maintained at levels close to or below the Forebay water surface elevation for key monitoring wells located between the pumping wells and the Forebay. Additionally, potentiometric surface maps were prepared using transducer and Forebay Canal data for two representative time periods when the groundwater extraction and treatment system was operating: October 5, 2024 at 12:30 AM, near Forebay low stage (**Figure 5A** for FZ-10 and **Figure 6A** for FZ-11) and October 5, 2024 at 5:00 PM, near Forebay high stage (**Figure 5B** for FZ-10 and **Figure 6B** for FZ-11). These potentiometric maps indicate that groundwater flow is being captured in FZ-10 and FZ-11 under both Forebay high and low conditions.

In August 2019, a continuous groundwater level monitoring study was performed using pressure transducers. Data from this study indicated that the overburden and shallow bedrock hydro-stratigraphic zone is not influenced by cyclic fluctuations in the Forebay stage. Additionally, the 2019 study also indicated that FZ-12 exhibited a negligible response to changes in the Forebay stage. Therefore, potentiometric surface maps were prepared for the overburden and shallow bedrock zone and for FZ-12 using manual water level gauging data from 2024 (**Figure 4** and **Figure 7**, respectively). Manual water level gauging data from the October 2024 monitoring event are summarized on **Table 3**. The potentiometric surface map for the overburden and shallow bedrock zone (**Figure 4**) indicates groundwater in the overburden/shallow bedrock flow potentials that are generally westerly, with components to the northwest and south. The potentiometric surface map for bedrock flow zone FZ-12 (**Figure 7**) indicates that flow potentials converging on extraction well EW-1R from the monitored portions of the Site, indicating that EW-1R is maintaining hydraulic control within the relevant portions of FZ-12.

5.2 Annual Groundwater Performance Monitoring – 2024

Sampling of the site-wide monitoring well network and each extraction well continues to be performed annually. The purpose of the groundwater monitoring is to evaluate the remedial progress of the groundwater extraction system in removing SSPL compounds in site groundwater. The groundwater sampling data are used to assess concentration trends over time, as well as estimate extraction-well-specific contaminant mass removal rates.

On March 22, 2021, the NYSDEC approved a previous request by SMC (June 2016) to remove nine monitoring wells (L-69, LR-2, R-61, R-66, W-17, W-23B, W-60L, T-4, and OW-11) from the annual sampling schedule. These wells do not show potentiometric surface depressions during groundwater extraction, are dry, and provide no meaningful information regarding plume delineation or contaminant distribution. On August 16, 2016, the NYSDEC approved an SMC request to eliminate only the quarterly extraction well sampling events that had been performed since the 1990s. However, quarterly grab sampling from higher yielding extraction wells (EW-1R, EW-2, EW-3, EW-5, and EW-6) has resumed at the Site for improved contaminant mass removal performance evaluation.

On October 31, 2024, the NYSDEC approved a request by SMC in the 2023 OM&M Report/PRR to remove three monitoring wells (W-50L, LR-50, and R-62) from the annual sampling schedule. These wells, W-50L and LR-50, will continue to be used to measure water levels on an annual basis.

5.2.1 Annual Groundwater Sampling Summary

The annual site-wide groundwater sampling event was performed between October 9 and October 24, 2024. As approved by the NYSDEC via a phone conversation and follow-up email on March 22, 2021, sampling of the monitoring wells was performed using no-purge methods via HydraSleeve™ samplers. Monitoring wells were sampled using 1.7-inch by 38-inch HydraSleeve™ samplers, except for four wells (W-11, W-19A, W-20, and W-23C) which were sampled using 1.75-inch by 30-inch custom HydraSleeve™ samplers due to lower-than-average water columns. These dedicated/disposable HydraSleeve™ samplers were deployed at the prescribed depths (see sampling logs **Appendix E**) on October 9, 2024 and retrieved on October 23 and 24, 2024. Sampled groundwater was poured from the sampler directly into laboratory-provided glassware. Remaining water in the sampler was then used for field measurement of water quality indicator parameters. Samples could not be collected from 5 wells (W-11, W-19A, W-19D, W-22A, and W-48E) as the retrieved HydraSleeve™ samplers were dry. **Appendix E** contains sampling logs and water quality indicator measurements. The extraction wells were sampled from in-line ports located within the treatment building. The 2024 annual event was performed at

a time when the system was online. The samples obtained were submitted to Eurofins Environment Testing in Buffalo, New York for analysis of SSPL compounds using USEPA Methods 8260C. The full laboratory packages are provided in **Appendix F**; the analytical results for the groundwater samples are presented in **Table 4**.

5.2.2 Data Usability Summary Report

Category B laboratory reports for the groundwater samples were provided by Eurofins Environment Testing and were forwarded to Langan's data validator for samples collected during the 2024 groundwater sampling event. Copies of the laboratory data reports are included as **Appendix F**. Copies of the DUSRs are also provided in **Appendix F**.

All data are considered usable, as qualified. Completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

5.2.3 Monitoring Deficiencies

Monitoring activities for the reporting period fully complied with the SMP Monitoring Plan and no deficiencies were identified.

5.3 Overburden/Shallow Bedrock Wells

Shallow groundwater wells, screened at or near the overburden/bedrock interface, were sampled in October 2024. A groundwater potentiometric map for the shallow wells is provided as **Figure 4**. A contaminant dot-concentration map for the shallow wells was generated to show the concentrations of carbon disulfide, carbon tetrachloride, and chloroform (**Figure 8**). Contaminant concentration trend graphs for the shallow wells were generated to show the concentrations over time for carbon disulfide, carbon tetrachloride, and chloroform (**Appendix G-1**). Generally, the contaminant concentration trend graphs indicate concentrations are consistent with historical levels for carbon disulfide, carbon tetrachloride, and chloroform. However, carbon disulfide concentrations have decreased to below the NYSDEC GWQS in all sampled overburden/shallow bedrock wells. The 2024 analytical results used to develop the dot-concentration maps and trend graphs are presented in **Table 4**.

5.4 Flow Zone 10

Flow zone 10 (FZ-10) is a water-bearing fracture zone found at an elevation between 520 and 540 feet NAVD88 at the Site. Groundwater potentiometric maps from the low and high Forebay stages logged during the 2024 continuous monitoring program are provided as **Figure 5A** and **Figure 5B**, respectively. A contaminant dot-concentration map for carbon disulfide, carbon tetrachloride, and chloroform in FZ-10 is presented as **Figure 9**. A contaminant concentration

trend graph for carbon disulfide, carbon tetrachloride, and chloroform in FZ-10 is presented as **Appendix G-2**. Generally, the contaminant concentration trend graphs indicate concentrations are consistent with historical levels for carbon disulfide, carbon tetrachloride, and chloroform. However, carbon disulfide concentrations decreased to beneath the NYSDEC Groundwater Quality Standards (GWQS) in northern well W-16L. The 2024 analytical results used to develop the dot-concentration maps and trend graphs are provided in **Table 4**.

5.5 Flow Zone 11

Flow zone 11 (FZ-11) is a water-bearing fracture zone found at an elevation between 510 and 520 feet NAVD88 at the Site. Groundwater potentiometric maps from the low and high Forebay stages logged during the 2024 continuous monitoring event are provided as **Figure 6A** and **Figure 6B**, respectively. A contaminant dot-concentration map for carbon disulfide, carbon tetrachloride, and chloroform in FZ-11 is presented as **Figure 10**. A contaminant concentration trend graph for carbon disulfide, carbon tetrachloride, and chloroform in FZ-11 is presented as **Appendix G-3**. Generally, the contaminant concentration trend graphs indicate concentrations are consistent with historical levels for carbon disulfide, carbon tetrachloride, and chloroform. The 2024 analytical results used to develop the dot-concentration maps and trend graphs are provided in **Table 4**.

5.6 Flow Zone 12

Flow zone 12 (FZ-12) is a water-bearing fracture zone found at an elevation around 470 feet NAVD88 at the Site. Manual water level gauging data from the October 2024 monitoring event are summarized on **Table 3**. The groundwater potentiometric map for FZ-12 is provided as **Figure 7**. A dot-concentration map for carbon disulfide, carbon tetrachloride, and chloroform in FZ-12 is presented as **Figure 11**. A contaminant concentration trend graph for carbon disulfide, carbon tetrachloride, and chloroform in FZ-12 is presented as **Appendix G-4**. Generally, the contaminant concentration trend graphs indicate concentrations are consistent with historical levels. Concentrations of carbon disulfide and chloroform remain at or near historical maximums in R-68, located in the northwest corner of the Site. The 2024 analytical results used to develop the dot-concentration maps and trend graphs are provided in **Table 4**.

5.7 Flow Zone 13

Flow zone 13 (FZ-13) is a water-bearing fracture zone found at an elevation between 440 and 445 feet NAVD88 at the Site. An insufficient number of monitoring or extraction wells are present in FZ-13 to develop meaningful groundwater contour maps or contaminant dot-concentration maps, as only extraction well EW-1R and newly installed monitoring well IR-80 intersect FZ-13. Manual water level gauging data from the October 2024 monitoring event are summarized on **Table 3**.

5.8 Multi-Zone Extraction Wells

The groundwater extraction well network consists of a total of 12 extraction wells, as follows: three overburden/shallow bedrock extraction wells in Area A (DPA-201, DPA-202, and DPA-203); four extraction wells in bedrock FZ-10 (EW-4, EW-5, EW-6, and EW-7); two extraction wells in bedrock FZ-10 and FZ-11 (EW-2 and EW-3); one extraction well in bedrock FZ-11 (LR-66); one extraction well in bedrock FZ-12 (OW-3); and one extraction well in bedrock FZ-12 and FZ-13 (EW-1R). Multi-zone extraction wells intersect multiple bedrock flow zones. Manual water level gauging data from the October 2024 monitoring event are summarized on **Table 3**. The extraction wells were included in the coincident groundwater potentiometric maps as illustrated on **Figure 4** through **Figure 7**. Additionally, each multi-zone extraction well was included in dot-concentration maps for carbon disulfide, carbon tetrachloride, and chloroform according to each coincident flow zone and are presented as **Figure 8** through **Figure 11**. A contaminant concentration trend graph for carbon disulfide, carbon tetrachloride, and chloroform in the multi-zone extraction wells is presented as **Appendix G-6**. Generally, the contaminant concentration trend graphs indicate concentrations are decreasing or stable from historical levels in EW-2 and EW-3, but increasing in EW-1R for carbon disulfide, carbon tetrachloride, and chloroform. The 2024 analytical results used to develop the trend graphs are provided in **Table 4**.

5.9 Annual Groundwater Performance Monitoring – 2025

The 2025 annual groundwater sampling event is scheduled to be completed in August 2025. As already noted, two new monitoring wells (R-80 and IR-80) were installed in 2023 and are being added to the annual monitoring program. Additionally, well DPA-203 (overburden) was taken out of service as an extraction well in 2023, and a new larger diameter extraction well (EW-7) was installed nearby to extract groundwater from FZ-10. EW-7 will be monitored for the same parameters and at the same frequency as the other extraction wells at the Site. DPA-203 will be retained as a monitoring well and will be maintained on the annual monitoring program. On October 31, 2024, the NYSDEC approved a request by SMC in the 2023 OM&M Report/PRR to remove three monitoring wells (W-50L, LR-50, and R-62) from the annual sampling schedule. These wells, W-50L and LR-50, will continue to be used to measure water levels on an annual basis.

The results of the annual groundwater sampling event will continue to be reviewed not only to evaluate system performance, but to also determine if the sampling of select wells is no longer necessary. Any future revisions to the annual groundwater sampling event scope will also be proposed for review by, and discussion with, the NYSDEC prior to implementing any revisions.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 IC/EC Compliance

The IC/ECs are functioning as intended. No additional modifications to the IC/ECs are proposed at this time.

6.2 OM&M Plan Compliance

Per the results of the OM&M activities completed in 2024 and reported herein, the groundwater extraction and treatment system continues to operate as designed.

The mass removal of contaminants was completed via groundwater extraction at nine bedrock groundwater extraction wells (EW-1R through EW-7, LR-66, and OW-3), and the three dual-phase overburden/shallow bedrock wells (DPA-201, DPA-202, and DPA-203). Approximately 13.9 million gallons of groundwater were pumped from the Site and treated through the on-site treatment system. This volume is relatively consistent with the 2023 extraction volume of 13.6 million gallons (represents a 2% increase from 2023 to 2024). Approximately 557 pounds of contaminants were removed by the treatment system during 2024, as calculated from individual well concentrations and extraction volumes, representing an overall decrease in mass removal from the approximately 746 pounds removed in 2023. Well-specific influent volumes and concentrations reported from the annual groundwater sampling event in October 2024 were used to calculate mass removal. The most significant reduction of mass removal was observed in EW-6, which is related to the lower concentrations detected in the EW-6 sample during the annual sampling event in 2024 as compared to 2023. Less mass was removed from EW-3 during 2024 as compared to 2023, which is attributed to the lower extraction volume because the pump was inoperable during July and August.

In order to better evaluate mass removal rates, quarterly influent sampling at each extraction well will continue. This will allow for a more accurate tracking of influent contaminant concentrations on an extraction well-specific basis throughout the year. The quarterly sampling from 2024 confirmed consistent concentrations with the annual sampling results used to calculate mass removal. The total mass of contaminants removed from groundwater at the Site in 2024 is summarized in **Table 2**. The total volume of groundwater pumped from the Site in 2024 is summarized in **Table 5**.

The system operation will be maintained throughout 2025. As is typical, the well disinfection and cleaning event is expected to be performed prior to the annual performance sampling event; damaged or deficient pumps will be cleaned and/or replaced, as needed, to allow for effective and continuous hydraulic capture and contaminant mass removal. The operation of the chemical feed system will be maintained so as to alleviate system fouling and optimize system run time;

the operation of the system will be further evaluated and enhanced throughout 2025 using the system upgrades incorporated into the system in November 2020 (i.e. closer monitoring of the system with telemetry and data analysis). System monitoring sampling, discharge sampling, and the annual site-wide performance sampling will also continue throughout 2025.

Routine maintenance will be performed, as needed, to the site grounds and buildings. The next annual site-wide inspection and groundwater sampling events are tentatively scheduled for August 2025.

6.3 SMP Compliance

No violations of the SMP or associated IC/EC and monitoring requirements were identified during the monitoring period. Routine maintenance was performed during this reporting period to secure the Site. The IC/ECs continue to function. Inspections and monitoring will continue per the SMP.

7.0 CERTIFICATION OF IC/ECS

7.1 IC/EC Certification Form

The completed IC/EC Certification Form is provided as **Appendix H**.

7.2 IC/EC Certification

I, Matthew Ambrusch, P.E., of Langan, have been authorized and designated by the Site owner to sign this certification for the Site.

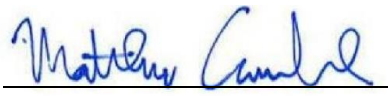
For each institutional or engineering control identified for the Site, I certify that to the best my knowledge all of the following statements are true:

- The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;

- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program and generally accepted engineering practices; and
- The information presented in this report is accurate and complete.

CERTIFICATION

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

110412	05-01-2025	
New York State Professional Engineer #	Date	Signature

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

TABLES

Table 1
Well Construction Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

Well ID	Northing (ft_NAD83)	Easting (ft_NAD83)	Elevation Top of Casing (ft_NAVD88)	Northing, Easting, and Elevation Top of Inner Casing Data Source	Ground Surface Elevation	Stickup Length (ft)	Well Depth (ft bgs)	Open Interval Top (ft bgs)	Open Interval Bottom (ft bgs)	Open Interval (ft)	Casing	Well Diameter (in)	Well Type	FLOW ZONE
B-02**	1146250.38	1027130.61	569.84	GHD	566.8	3.04	106	102.8	104.3	1.5	PVC	1.5	screened	12
B-03	1146431.00	1026443.00	--	See Notes 1 and 2	559	--	--	--	--	--	--	--	--	undetermined
D-05	1146055.00	1030610.00	--	See Notes 1 and 2	614	--	--	--	--	--	--	--	--	undetermined
D-07	1145981.00	1030470.00	--	See Notes 1 and 2	512.5	--	--	--	--	--	--	--	--	undetermined
DPA-201*	1146178.554	1027865.951	600.28	Langan Survey	598.49	3.07	22	2	22	20	steel	4	screened	OB/SBR
DPA-202*	1146131.974	1028001.413	602.67	Langan Survey	600.92	3.58	26	5	25	20	steel	4	screened	OB/SBR
DPA-203*	1146001.014	1028023.665	605.54	Langan Survey	603.39	2.93	27.5	6.5	26.5	20	steel	4	screened	OB/SBR
DPT-261*	1145853.89	1027644.87	595.81	GHD	590	5.81	--	--	--	--	--	--	--	undetermined
EW-1*	1146224.08	1027249.173	588.53	Langan Survey	587.36	2.45	163	32	163	131	steel	6	open hole	11,12,13
EW-1R*	1146236.6	1027252.9	591.06	Terra Point	588.1	2.96	164.3	95	164.3	69.3	steel	6	open hole	12,13
EW-2*	1145960.531	1027506.513	591.16	Langan Survey	589.36	3.69	150	23	150	127	steel	6	open hole	10,11 (formerly open to 12,13)
EW-2*	1145960.531	1027506.513	591.16	Langan Survey	589.36	3.69	98.75	23	98.75	75.75	steel	6	open hole	10,11
EW-3*	1145894.976	1028046.695	605.99	Langan Survey	603.06	2.45	163	27	163	136	steel	6	open hole	10,11 (formerly open to 12)
EW-3*	1145894.976	1028046.695	605.99	Langan Survey	603.06	2.45	116.08	27	116.08	89.08	steel	6	open hole	10,11
EW-4*	1145863.616	1027625.444	596.56	Langan Survey	593.77	2.5	71.6	16	71.6	55.6	steel	6	open hole	10
EW-5*	1146173.774	1027877.167	601.70	Langan Survey	598.14	2.49	69	13.5	69	55.5	steel	6	open hole	10
EW-6*	1145958.723	1027924.554	603.21	Langan Survey	600.37	2.48	71.5	16	71.5	55.5	steel	6	open hole	10
EW-7*	1145996.24	1028027.21	605.56	Terra Point	603.41	2.0	70	25	75	50	steel	6	open hole	10
GPG-51	1146136.00	1026910.00	--	See Notes 1 and 2	577.25	2.04	collapsed inside, could not gauge	--	--	--	steel	4	--	undetermined
IR-49	1146068.00	1027257.00	587.22	See Notes 1 and 2	586	1.22	--	--	--	--	--	--	--	undetermined
IR-51	1146140.00	1026941.00	578.99	See Notes 1 and 2	576.75	2.24	9.7	--	--	--	steel	4	--	undetermined
IR-80	1146372.89	1036886.03	574.3	Terra Point	581.99	1.7	160	130	161.7	31.7	steel	6	open hole	13
LR-16	1146287.295	1027979.333	600.39	Langan Survey	598.37	1.99	90.5	80.5	90.5	10	PVC	2	screened	11
LR-2	1145947.068	1027654.5	595.38	Langan Survey	593.99	*2.43*	89	78	88	10	PVC	2	screened	11
LR-20	1146326.933	1027488.461	593.70	Langan Survey	591.72	0.56	85	75	85	10	PVC	2	screened	11
LR-48	1145844.317	1027370.528	587.62	Langan Survey	585.73	*1.85*	74.7	54	64	10	PVC	2	screened	11
LR-49						1.71	73	63	73	10	PVC	2	screened	11
LR-50	1146336.747	1027224.236	590.13	Langan Survey	588.60	1.61	75	63.7	73.7	10	PVC	2	screened	11
LR-51	1146145.851	1026988.315	579.97	Langan Survey	577.90	1.75	65	54	64	10	PVC	2	screened	11
LR-61	1145868.965	1027838.889	600.59	Langan Survey	598.65	3.66	99	78	99	21	steel	4	open hole	11
LR-62	1145757.458	1028285.142	606.85	Langan Survey	604.47	4.44	103	83	103	20	steel	4	open hole	11
LR-66*	1146208.85	1027666.786	591.19	Langan Survey	593.51	3	89.5	79.5	89.5	10	PVC	2	screened	11
LR-67	1146061.75	1028333.89	606.35	Langan Survey	604.07	2.24	100	90	100	10	PVC	2	screened	11
LR-69	1146003.13	1027277.74	585.87	GHD	583.4	2.47	85	75	85	10	PVC	2	screened	11
LR-87	--	--	--	See Notes 1 and 2	--	--	--	--	--	--	--	--	--	undetermined
NX-3	1145569.00	1027916.00	--	See Notes 1 and 2	592.5	--	--	--	--	--	--	--	--	undetermined
OW-1	1146001.26	1028777.69	614.07	See Notes 1 and 2	612	2.07	139.6	118.3	139.6	21.3	steel	4	open hole	12
OW-10	1146570.00	1026783.00	573.8	See Notes 1 and 2	573.69	0.11	13.89	9	14	5	steel	2	open hole	SBR

See last page for notes

Table 1
Well Construction Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

Well ID	Northing (ft_NAD83)	Easting (ft_NAD83)	Elevation Top of Casing (ft_NAVD88)	Northing, Easting, and Elevation Top of Inner Casing Data Source	Ground Surface Elevation	Stickup Length (ft)	Well Depth (ft bgs)	Open Interval Top (ft bgs)	Open Interval Bottom (ft bgs)	Open Interval (ft)	Casing	Well Diameter (in)	Well Type	FLOW ZONE
OW-11	1146484.76	1028230.73	574.9	GHD	577	-2.1	--	--	--	--	--	--	--	undetermined
OW-2	1146000.14	1028751.00	614.6	See Notes 1 and 2	612.3	2.3	188	160.2	188	27.8	steel	2	open hole	13
OW-3*	1146315.614	1027449.393	592.89	Langan Survey	589.70	2.1	128	108	128	20	PVC	2	screened	12
OW-4	1146300.54	1027412.96	592.26	See Notes 1 and 2	589.9	2.36	166.2	140.4	166.2	25.8	steel	2	open hole	13
OW-5	1145907.416	1028447.591	609.85	Langan Survey	608.28	2.05	101.8	88.8	101.8	13	steel	2	open hole	11
OW-6	1146043.90	1027248.63	587.87	See Notes 1 and 2	585.9	1.97	257.5	220	257.5	37.5	steel	4	open hole	undetermined
OW-7	1146234.89	1027912.33	600.24	See Notes 1 and 2	597.4	2.84	13.1	7.8	13	5.2	steel	2	screened	undetermined
OW-8	1147321.00	1026874.00	575.55	See Notes 1 and 2	575.4	0.15	11	6	11	5	steel	2	screened	undetermined
OW-9	--	--	574.9	See Notes 1 and 2	575	-0.1	14.6	9.5	14.5	5	steel	2	screened	undetermined
R-16	1146277.863	1027992.763	601.23	Langan Survey	598.47	2.28	131	110	130	20	PVC	2	screened	12
R-19	1145633.035	1027877.305	597.87	Langan Survey	594.79	4.06	151	95	151	56	steel	4	open hole	12
R-48	1145856.153	1027362.241	588.57	Langan Survey	586.16	2.41	140	91	140	49	steel	4	open hole	12
R-49	1146056.42	1027269.79	587.57	See Notes 1 and 2	586.1	1.47	112.2	110.7	111.7	1	PVC	2	screened	12
R-50	1146318.194	1027222.817	591.08	Langan Survey	588.39	2.81	141	90	141	51	steel	4	open hole	12
R-51**	1146161.04	1026987.166	579.66	Langan Survey	577.98	1.58	120.3	118.6	120.1	1.5	PVC	1.5	screened	12
R-60	1146077.729	1027248.97	589.29	Langan Survey	587.02	2.85	139	89	139	50	steel	4	open hole	12
R-61	1145867.981	1027849.849	600.52	Langan Survey	598.73	3.7	155.5	100	155.5	55.5	steel	4	open hole	12
R-62	1145759.065	1028267.606	606.77	Langan Survey	604.46	4.4	159.9	104	159.9	55.9	steel	4	open hole	12
R-66	1146181.665	1027670.13	596.18	Langan Survey	593.57	2.43	150.8	130.8	150.8	20	steel	4	open hole	13
R-67	1146055.285	1028356.476	606.90	Langan Survey	604.49	2.27	141	120	140	20	PVC	2	screened	12
R-68	1146367.168	1027104.762	587.98	Langan Survey	586.30	1.68	121	100	120	20	PVC	2	screened	12
R-80	1146372.07	1026898.58	584.47	Terra Point	582.40	2	127.6	100	125	20		6	open hole	12
TEW2	--	--	591.38	See Notes 1 and 2	588.4	2.98	150.4	--	--	--	--	6	--	undetermined
W-1	1146193.83	1030527.00	618.49	See Notes 1 and 2	616.4	2.09	27.9	15.9	25.9	10	PVC	2	screened	undetermined
W-11	1145746.689	1029221.975	613.28	Langan Survey	611.54	1.62	31	19	29	10	PVC	2	screened	undetermined
W-12	1145881.82	1029322.03	616.59	See Notes 1 and 2	615.1	1.49	32.8	10.8	30.8	20	PVC	2	screened	undetermined
W-13	1146253.83	1028703.05	613.58	See Notes 1 and 2	611.6	1.98	21.6	15	20	5	PVC	2	screened	undetermined
W-14	1146019.82	1028766.05	614.85	See Notes 1 and 2	613	1.85	26	19	24	5	PVC	2	screened	undetermined
W-15A	1145769.82	1027936.07	612.89	See Notes 1 and 2	611	1.89	54	47	52	5	PVC	2	screened	undetermined
W-15B	1145725.82	1028672.05	613.22	See Notes 1 and 2	611.3	1.92	34	22	32	10	PVC	2	screened	OB/SBR
W-15C	1145718.82	1028639.05	612.99	See Notes 1 and 2	611.1	1.89	18	11	16	5	PVC	2	screened	undetermined
W-16	1146279.028	1027949.222	600.41	Langan Survey	598.22	0.47	29.7	17.9	27.8	9.9	PVC	2	screened	SBR
W-16L	1146270.074	1027976.568	601.28	Langan Survey	599.18	2.06	65	55	65	10	PVC	2	screened	10
W-17	1145953.696	1027912.113	601.62	Langan Survey	600.57	2.16	26.8	15	24.9	9.9	PVC	2	screened	OB/SBR
W-18A	1145769.82	1027936.07	602.53	See Notes 1 and 2	600.7	1.83	27.5	15.5	25.5	10	PVC	2	screened	OB/SBR
W-18L	1145770.58	1028012.82	601.47	Langan Survey	599.84	2.47	71	42	71	29	steel	6	open hole	10
W-18R	1145793.75	1028009.96	601.45	GHD	--	2.04	32.79	--	--	--	PVC	2	--	shallow bedrock
W-19A	1145628.66	1027876.51	597.41	GHD	595.5	1.91	39.5	33.5	38.5	5	PVC	2	screened	undetermined
W-19B	1145643.956	1027869.538	595.59	Langan Survey	593.98	1.77	82	65	80	15	PVC	2	screened	10
W-19D	1145646.514	1027843.319	594.55	Langan Survey	592.49	1.99	23	11	21	10	PVC	2	screened	OB/SBR

See last page for notes

Table 1
Well Construction Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

Well ID	Northing (ft_NAD83)	Easting (ft_NAD83)	Elevation Top of Casing (ft_NAVD88)	Northing, Easting, and Elevation Top of Inner Casing Data Source	Ground Surface Elevation	Stickup Length (ft)	Well Depth (ft bgs)	Open Interval Top (ft bgs)	Open Interval Bottom (ft bgs)	Open Interval (ft)	Casing	Well Diameter (in)	Well Type	FLOW ZONE
W-20	1146338.435	1027462.239	592.67	Langan Survey	591.01	2.05	26.8	15	24.9	9.9	PVC	2	screened	shallow bedrock
W-22A	1145759	1027606.082	592.26	Langan Survey	590.95	2.34	22.1	10.1	20.1	10	PVC	2	screened	undetermined
W-23A	1145898.82	1027507.09	594.7	See Notes 1 and 2	592.6	2.1	59	42.4	57.1	14.7	PVC	2	screened	undetermined
W-23B	1145932.275	1027588.717	593.88	Langan Survey	592.13	1.97	41.9	30.1	40	9.9	PVC	2	screened	OB/SBR
W-23C	1145914.189	1027582.191	593.85	Langan Survey	592.8	2.09	21	14.2	19.1	4.9	PVC	2	screened	OB/SBR
W-29A	1146254.89	1030563.30	--	See Notes 1 and 2	615.6	2	57.94	--	--	--	PVC	2	--	undetermined
W-29B	1146257.60	1030533.10	--	See Notes 1 and 2	615.3	1.83	55.55	--	--	--	PVC	2	--	undetermined
W-2A	1146590.83	1030187.01	617.33	See Notes 1 and 2	615.5	1.83	31.5	15	20	5	PVC	2	screened	undetermined
W-2B	1146583.83	1030186.01	617.33	See Notes 1 and 2	615.5	1.83	51.1	26.75	41.5	14.75	PVC	2	screened	undetermined
W-2C	1146572.83	1030176.01	617.19	See Notes 1 and 2	615.5	1.69	13.2	8.2	13.2	5	PVC	2	screened	undetermined
W-34	1146152.90	1030536.20	--	See Notes 1 and 2	615.8	1.83	--	--	--	--	Steel	4	--	undetermined
W-3A	1146214.83	1029455.03	619.54	See Notes 1 and 2	617.4	2.14	60	44	54	10	PVC	2	screened	undetermined
W-3B	--	--	--	See Notes 1 and 2	--	--	--	--	--	--	--	--	--	undetermined
W-3C	1146208.83	1029462.03	619.11	See Notes 1 and 2	617.5	1.61	40.5	28.5	38.5	10	PVC	2	screened	undetermined
W-3D	1146218.83	1029466.03	619.48	See Notes 1 and 2	617.6	1.88	17.8	10.8	15.8	5	PVC	2	screened	undetermined
W-4	1146098.82	1029577.03	619.78	See Notes 1 and 2	617.8	1.98	21	9.3	19.2	9.9	PVC	2	screened	undetermined
W-48E	1145859.39	1027396.47	587.7	GHD	585.9	1.8	38.2	27.4	37.2	9.8	PVC	2	screened	SBR
W-50L	1146328.51	1027248.64	589.96	GHD	588.73	1.96	65	55	65	10	PVC	2	screened	10
W-5A	1146005.82	1029865.02	619.81	See Notes 1 and 2	618	1.81	35.3	29.3	34.3	5	PVC	2	screened	undetermined
W-5B	1146007.82	1029880.02	619.75	See Notes 1 and 2	617.9	1.85	26.1	18	23	5	PVC	2	screened	undetermined
W-5C	1146019.82	1029868.02	619.82	See Notes 1 and 2	617.8	2.02	19.1	11	17	6	PVC	2	screened	undetermined
W-6	1145913.82	1029764.02	619.93	See Notes 1 and 2	617.6	2.33	17	10.2	15.1	4.9	PVC	2	screened	undetermined
W-60L	1146077.85	1027246.83	588.86	GHD	585.5	3.36	34.95	--	--	--	steel	4	--	undetermined
W-65	1145924.94	1027275.38	586.20	Langan Survey	584.36	2.9	55	23	55	32	steel	6	open hole	10
W-66	1146185.58	1027646.92	595.1	Langan Survey	593.21	2.6	46	19	46	27	steel	4	open hole	shallow bedrock
W-66L	1146204.114	1027641.863	594.81	Langan Survey	593.14	1.96	64.7	55	65	10	PVC	2	screened	10
W-67	1146086.72	1028342.72	605.98	Langan Survey	604.28	2.58	40	15	40	25	steel	4	open hole	shallow bedrock
W-67L	1146084.395	1028336.18	606.12	Langan Survey	603.88	1.97	70	50	70	20	PVC	2	screened	10
W-70L	1145802.85	1027645.26	594.57	Langan Survey	592.46	3.07	72	42	72	30	steel	6	open hole	10
W-7A	1145816.80	1029648.90	618.59	See Notes 1 and 2	616.8	1.79	34.4	28.4	33.4	5	PVC	2	screened	undetermined
W-7B	1145817.82	1029668.02	618.83	See Notes 1 and 2	616.6	2.23	61.8	45.8	59.8	14	PVC	2	screened	undetermined
W-7C	1145829.82	1029658.02	618.86	See Notes 1 and 2	616.8	2.06	19	12	17	5	PVC	2	screened	undetermined
W-8A	1145734.82	1029567.03	617.97	See Notes 1 and 2	616	1.97	24.45	7.85	22.55	14.7	PVC	2	screened	undetermined
W-9A	1145652.82	1029472.03	616.97	See Notes 1 and 2	614.9	2.07	54.5	42	52	10	PVC	2	screened	undetermined
W-9B	1145642.82	1029457.03	617.06	See Notes 1 and 2	615.1	1.96	35	28	33	5	PVC	2	screened	undetermined
W-9C	1145635.82	1029470.03	617.27	See Notes 1 and 2	615.2	2.07	26	14	24	10	PVC	2	screened	undetermined

See last page for notes

Table 1
Well Construction Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

Notes:

1	Northing and easting coordinates were obtained from GHD in electronic format on February 28, 2018. Additional northing and easting coordinates were obtained from well logs, if available, and converted from NAD27 to NAD83. Otherwise coordinates were estimated from a survey map by Niagara Boundary and Mapping Services dated July 6, 1993.
2	Elevation data were obtained from GHD in electronic format on February 28, 2018. Additional ground surface elevations were obtained from well logs, if available. Otherwise, ground surface elevations were estimated from a survey map by Niagara Boundary and Mapping Services dated July 6, 1993. Elevation datum is NAVD88
Langan Survey	Northing and easting coordinates were surveyed by Langan on August 28, 2019 and August 29,2019
Terra Pointe	Northing and easting coordinates were surveyed by Terra Pointe on February 18, 2022
NAD27	North American Datum of 1927
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
ft -	feet
bgs -	below ground surface
in -	inches
--	indicates no data is available.
*	Extraction wells
**	Well screens defined in well completion/boring logs as having a length of 1.5 feet and an outside diameter of 1.5 inches.
OB	Overburden
SBR	Shallow Bedrock
	Abandoned well
	Well Construction Modified

Table 2
Pump and Treat System Mass Removal by Well
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

WATER BY 8260C (µg/L)	Extraction Well	DPA-202			EW-7			EW-1R			EW-2			EW-3		
	Sample Date	10/23/2024			10/23/2024			10/23/2024			10/23/2024			10/23/2024		
	Extraction Volume (gal)	139,291			5,392			428,652			4,222,991			4,438,152		
	NYSDEC GW Criteria	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal
Benzene	1	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%
Carbon Disulfide	60	0	0.00	0%	0	0.00	0%	**75,000**	269	93%	11	0.39	0%	**200**	7.4	3%
Carbon Tetrachloride	5	**11,000**	13	7%	**6,800**	0.31	0%	**5,900**	21	12%	**49**	1.7	1%	**1,700**	63	36%
Chlorobenzene	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%
Chloroform	7	**1,800**	2.1	3%	**630**	0.03	0%	**4,300**	15	19%	**38**	1.35	2%	**820**	31	38%
Methylene Chloride	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	2.8	0.10	6%	**43**	1.6	94%
Tetrachloroethene (PCE)	5	**340**	0.40	8%	**41**	0.00	0%	0	0.00	0%	3.5	0.12	3%	**24**	0.89	18%
Toluene	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%
Trichloroethene (TCE)	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	2	0.07	1%	**75**	2.79	54%
Total VOCs	NA	13,140	15	3%	7,471	0.34	0%	85,200	306	55%	106	3.8	1%	2,862	106	19%
Removal Efficiency (lbs/1,000 gal)			0.11			0.06			0.71			0.001			0.02	

Notes:

- % removal column shows the % of individual compound mass removed by each well.
- Total Mass Removal column based on sum of individual wells and not total effluent volume

NYSDEC - New York Department of Environmental Conservation
µg/L - micrograms per liter
gal - gallons
lbs - pounds

Prepared by: MW
Reviewed by: SB
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Table 2 - Pump and Treat Mass Removal by Well

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Table 2
Pump and Treat System Mass Removal by Well
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/22/2025

WATER BY 8260C (µg/L)	Extraction Well	EW-4			EW-5			EW-6			LR-66			OW-3			2024 Total Mass Removal (pounds)
	Sample Date	10/23/2024			10/23/2024			10/23/2024			10/23/2024			10/23/2024			
	Extraction Volume (gal)	172,223			3,458,651			924,536			91,642			10,488			
	NYSDEC GW Criteria	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	Result	Mass Removal	% Removal	
Benzene	1	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	**97**	0.01	100%	0.01
Carbon Disulfide	60	0	0.00	0%	0	0.00	0%	**140**	1.1	0%	0	0.00	0%	**120,000**	11	4%	289
Carbon Tetrachloride	5	**21**	0.03	0%	**290**	8.4	5%	**8,500**	66	38%	**2,000**	1.5	1%	**610**	0.05	0%	175
Chlorobenzene	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0.00
Chloroform	7	**23**	0.03	0%	**160**	4.6	6%	**3,400**	26	33%	**330**	0.25	0%	**1100**	0.10	0%	80.8
Methylene Chloride	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	1.70
Tetrachloroethene (PCE)	5	**5.6**	0.01	0%	**62**	1.8	37%	**200**	1.5	32%	**89**	0.07	1%	**140**	0.01	0%	4.85
Toluene	5	0	0.00	0%	0	0.00	0%	0	0.00	0%	0	0.00	0%	130	0.01	100%	0.01
Trichloroethene (TCE)	5	2.3	0.00	0%	**81**	2.3	45%	0	0.00	0%	0	0.00	0%	0	0.00	0%	5.21
Total VOCs	NA	52	0.07	0%	593	17	3%	12,240	95	17%	2,419	1.9	0%	122,077	11	2%	557
Removal Efficiency (lbs/1,000 gal)			0.000			0.005			0.10			0.02			1.0		0.04

Notes:

- % removal column shows the % of individual compound mass removed by each well.
- Total Mass Removal column based on sum of individual wells and not total effluent volume

NYSDEC - New York Department of Environmental Conservation
µg/L - micrograms per liter
gal - gallons
lbs - pounds

Prepared by: MW
Reviewed by: SB
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Table 2 - Pump and Treat Mass Removal by Well

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Table 3
Groundwater Gauging Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/17/2025

Well ID	TIC Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	Formation as Indicated in Annual O&M Report	FLOW ZONE	Event	Date	Depth to Water (ft TIC)	Groundwater Elevation (ft)	Depth to Bottom (ft TIC)	PID (ppm)	Notes
DPA-202*	602.67	600.92	Shallow	overburden/shallow bedrock	Pump Depth	Pump Depth	Pump Depth	580.68	NA	-	Groundwater elevation is assumed to be the pump depth.
EW-1R*	591.06	588.1	Deep	12,13	Hydrasleeve Deployment	10/9/2024 15:00	Analog Data	470.68	NM	NM	Elevation from transducer at time of hydrasleeve sampling event.
EW-2*	591.16	589.36	Intermediate	10,11	Low Stage	10/5/2024 0:30	Analog Data	535.66	NM	-	
					High Stage	10/5/2024 17:00		540.61		-	
EW-3*	605.99	603.06	Intermediate	10,11	Low Stage	10/5/2024 0:30	Analog Data	524.40	NM	-	
					High Stage	10/5/2024 17:00		532.98		-	
EW-5*	601.7	598.14	Shallow	10	Low Stage	10/5/2024 0:30	Analog Data	542.59	NM	-	
					High Stage	10/5/2024 17:00		544.68		-	
EW-6*	603.21	600.37	Shallow	10	Low Stage	10/5/2024 0:30	Analog Data	540.35	NM	-	
					High Stage	10/5/2024 17:00		540.99		-	
EW-7*	605.56	603.41	Shallow	10	Pump Depth	Pump Depth	Pump Depth	533.56	NM	-	Groundwater elevation is assumed to be the pump depth.
LR-66*	591.19	593.51	Deep	11	Pump Depth	Pump Depth	Pump Depth	542.42	NM	-	Groundwater elevation is assumed to be the pump depth.
LR-2	595.38	593.99	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 13:31	45.10	550.28	91.09	0	
					Low Stage	10/5/2024 0:30	48.39	547.00		-	
					High Stage	10/5/2024 17:00	42.50	552.89		-	
LR-16	600.39	598.37	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 12:49	52.83	547.56	93.92	0	
LR-20	593.7	591.72	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 11:13	39.95	553.75	87	0	
					Low Stage	10/5/2024 0:30	42.02	551.68		-	
					High Stage	10/5/2024 17:00	39.54	554.16		-	
LR-48	587.62	585.73	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 10:05	35.80	551.82	68.55	0	
					Low Stage	10/5/2024 0:30	40.64	546.98		-	
					High Stage	10/5/2024 17:00	33.57	554.05		-	
LR-49	545.97	544.12	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 13:37	36.80	509.17	75.84	0	
LR-50	590.13	588.6	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 11:02	34.30	555.83	76.4	0	
					Low Stage	10/5/2024 0:30	34.60	555.53		-	
					High Stage	10/5/2024 17:00	33.89	556.24		-	
LR-51	579.97	577.9	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 10:24	28.10	551.87	65.84	0	
LR-61	600.59	598.65	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 13:13	51.75	548.84	96.57	0	
					Low Stage	10/5/2024 0:30	55.12	545.47		-	
					High Stage	10/5/2024 17:00	49.94	550.65		-	
LR-62	606.85	604.47	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 12:55	57.70	549.15	105.7	0	
					Low Stage	10/5/2024 0:30	57.47	549.38		-	
					High Stage	10/5/2024 17:00	57.34	549.51		-	
LR-67	606.35	604.07	Lockport/Rochester	11	Hydrasleeve Deployment	10/9/2024 9:21	57.50	548.85	103.58	0	
OW-3*	592.89	589.7	Deep	12	Hydrasleeve Deployment	10/9/2024 14:30	68.1	524.79	NM	151	OW-3 not operating. Hydrasleeve deployed.
IR-80	574.3	581.99	Lockport/Rochester	13	Hydrasleeve Deployment	10/9/2024 10:38	127.52	446.78	200+	0.0	
OW-5	609.85	608.28	--	11	Hydrasleeve Deployment	10/9/2024 8:50	55.51	554.34	103.79	0	
R-16	601.23	598.47	Rochester	12	Hydrasleeve Deployment	10/9/2024 12:41	59.73	541.50	135.07	22.2	
R-19	597.87	594.79	Rochester	12	Hydrasleeve Deployment	10/9/2024 9:59	51.68	546.19	147.70	0.5	
R-48	588.57	586.16	Rochester	12	Hydrasleeve Deployment	10/9/2024 10:10	54.74	533.83	138.85	0.0	
R-60	589.29	587.02	Rochester	12	Hydrasleeve Deployment	10/9/2024 13:41	61.51	527.78	114.01	0.0	
R-61	600.52	598.73	Rochester	12	Hydrasleeve Deployment	10/9/2024	57.23	543.29	152.71	0.1	
R-67	606.9	604.49	Rochester	12	Hydrasleeve Deployment	10/9/2024 9:12	64.02	542.88	143.50	0.7	
R-68	587.98	586.3	Rochester	12	Hydrasleeve Deployment	10/9/2024 10:50	65.79	522.19	122.01	0.1	
R-80	584.47	582.4	Rochester	12	Hydrasleeve Deployment	10/9/2024 10:45	65.95	518.52	134.18	0.0	

Table 3
Groundwater Gauging Summary Table
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/17/2025

Well ID	TIC Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	Formation as Indicated in Annual O&M Report	FLOW ZONE	Event	Date	Depth to Water (ft TIC)	Groundwater Elevation (ft)	Depth to Bottom (ft TIC)	PID (ppm)	Notes
W-11	613.28	611.54	Upper Lockport	undetermined	Hydrasleeve Deployment	10/9/2024 9:38	31.63	581.65	32.60	0.0	
W-16	600.41	598.22	Upper Lockport	shallow bedrock	Hydrasleeve Deployment	10/9/2024 12:44	25.70	574.71	29.12	0	
W-16L	601.28	599.18	Upper Lockport	10	Hydrasleeve Deployment	10/9/2024 12:46	53.15	548.13	67.16	0	
					Low Stage	10/5/2024 0:30	53.43	547.85		-	
					High Stage	10/5/2024 17:00	51.76	549.52		-	
W-18L	601.47	599.84	Lower Lockport	10	Hydrasleeve Deployment	10/9/2024 13:05	54.26	547.21	74.3	0.5	
					Low Stage	10/5/2024 0:30	56.83	544.64		-	
					High Stage	10/5/2024 17:00	52.05	549.42		-	
W-18R	601.45	--	Lower Lockport	shallow bedrock	Hydrasleeve Deployment	10/9/2024 13:10	27.83	573.62	31.75	0	
W-19A	597.41	595.5	Lockport/Rochester	undetermined	Hydrasleeve Deployment	10/9/2024 9:52	DRY AT 39.20	NM	39.22	0	Well dry
W-19B	595.59	593.98	Upper Lockport	10	Hydrasleeve Deployment	10/9/2024 9:49	42.84	552.75	69.58	0	
					Low Stage	10/5/2024 0:30	47.08	548.51		-	
					High Stage	10/5/2024 17:00	39.14	556.45		-	
W-19D	594.55	592.49	Upper Lockport	undetermined	Hydrasleeve Deployment	10/9/2024 9:54	22.68	571.87	24.38	0	
W-20	592.67	591.01	Upper Lockport	shallow bedrock	Hydrasleeve Deployment	10/9/2024 11:16	22.06	570.61	28.75	0	
W-22A	592.26	590.95	Lower Lockport	undetermined	Hydrasleeve Deployment	10/9/2024 10:03	22.66	NM	22.68	0	
W-23C	593.85	592.8	--	undetermined	Hydrasleeve Deployment	10/9/2024 13:33	18.00	575.85	23	0	
W-48E	587.7	585.9	Lower Lockport	undetermined	Hydrasleeve Deployment	10/9/2024 10:15	36.80	NM	40.25	0	
W-50L	589.96	588.73	--	10	Hydrasleeve Deployment	10/9/2024	36.60	553.36	37.68	0	Transducer malfunction therefore high and low stage not available.
W-65	586.2	584.36	Upper Lockport	10	Hydrasleeve Deployment	10/9/2024 13:46	36.6	549.60	58.75	0	
					Low Stage	10/5/2024 0:30	36.54	549.66		-	
					High Stage	10/5/2024 17:00	36.28	549.92		-	
W-66	595.1	593.21	Lower Lockport	shallow bedrock	Hydrasleeve Deployment	10/9/2024 11:26	25.76	569.34	48.25	0	
W-66L	594.81	593.14	Upper Lockport	10	Hydrasleeve Deployment	10/9/2024 11:23	44.65	550.16	66.45	0	
					Low Stage	10/5/2024 0:30	46.28	548.53		-	
					High Stage	10/5/2024 17:00	42.52	552.29		-	
W-67	605.98	604.28	Lower Lockport	shallow bedrock	Hydrasleeve Deployment	10/9/2024 9:23	18.02	587.96	42.16	0	
W-67L	606.12	603.88	Lower Lockport	10	Hydrasleeve Deployment	10/9/2024 9:19	52.89	553.23	72	0	
					Low Stage	10/5/2024 0:30	52.79	553.33		-	
					High Stage	10/5/2024 17:00	52.84	553.28		-	
W-70L	594.57	592.46	--	10	Hydrasleeve Deployment	10/9/2024 13:29	45.51	549.06	74.26	0	
					Low Stage	10/5/2024 0:30	45.20	549.37		-	
					High Stage	10/5/2024 17:00	45.25	549.32		-	

Notes:

1 Northing and easting coordinates were obtained from GHD in electronic format on February 28, 2018. Additional northing and easting coordinates were obtained from well logs, if available, and converted from NAD27 to NAD83. Otherwise coordinates were estimated from a survey map by Niagara Boundary and Mapping Services dated July 6, 1993.

2 Elevation data were obtained from GHD in electronic format on February 28, 2018. Additional ground surface elevations were obtained from well logs, if available. Otherwise, ground surface elevations were estimated from a survey map by Niagara Boundary and Mapping Services dated July 6, 1993. Elevation datum is NAVD88

NAD27 North American Datum of 1927
NAD83 North American Datum of 1983
NAVD88 North American Vertical Datum of 1988
AMSL Above Mean Sea Level
PID Photo Ionization Detector
ppm Parts per million
NM Not Measured
TIC Top of Inner Casing
ft - Feet
bgs - Below ground surface
in - Inches
-- Indicates no data is available.
* Extraction wells
** Well screens defined in well completion/boring logs as having a length of 1.5 feet and an outside diameter of 1.5 inches.

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Extraction Wells							
			Location	DPA-202	EW-1R	EW-1R	EW-1R	EW-1R	EW-2	EW-2	EW-2
			Sample Name	DPA-202-102324	EW-1R-040224	EW-1R-051624	EW-1R-102324	EW-1R-111924	EW-2-040224	EW-2-051624	EW-2-102324
			Sample Date	10/23/2024	04/02/2024	05/16/2024	10/23/2024	11/19/2024	04/02/2024	05/16/2024	10/23/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	<200 U	<1000 U	<1000 U	<1000 U	<1000 U	<2 U	<1 U	<1 U
Carbon Disulfide	75-15-0	**60**	ug/l	<200 U	**61000**	**43000**	**75000**	**81000**	1.7 J	5	11 J
Carbon Tetrachloride	56-23-5	**5**	ug/l	**11000**	**3000**	**2700**	**5900**	**5000**	**48**	**37**	**49**
Chlorobenzene	108-90-7	**5**	ug/l	<200 U	<1000 U	<1000 U	<1000 U	<1000 U	<2 U	<1 U	<1 U
Chloroform	67-66-3	**7**	ug/l	**1800**	**3100**	**2900**	**4300**	**4000**	**38**	**29**	**38**
Methylene Chloride	75-09-2	**5**	ug/l	<200 U	**480 J**	**500 J**	<1000 U	<1000 U	1.4 J	1.5	2.8
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	**340**	<1000 U	<1000 U	<1000 U	<1000 U	**5.9**	1.9	3.5
Toluene	108-88-3	**5**	ug/l	<200 U	<1000 U	<1000 U	<1000 U	<1000 U	<2 U	<1 U	<1 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<200 U	<1000 U	<1000 U	<1000 U	<1000 U	2.1	1.3	2

Notes:
CAS - Chemical Abstract Service
ug/l - microgram per liter
RL - Reporting limit
<RL - Not detected
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Extraction Wells							
			Location	EW-2	EW-2	EW-3	EW-3	EW-3	EW-3	EW-3	EW-4
			Sample Name	EW-2-102324-DUP	EW-2-111924	EW-3-040224	EW-3-051624	EW-3-102324	EW-3-102324-DUP	EW-3-111924	EW-4-102324
			Sample Date	10/23/2024	11/19/2024	04/02/2024	05/16/2024	10/23/2024	10/23/2024	11/19/2024	10/23/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	<1 U	<1 U	<80 U	<50 U	<50 U	<50 U	<50 U	<1 U
Carbon Disulfide	75-15-0	**60**	ug/l	1.5 J	2.1	**400**	**240**	**200 J**	**150 J**	**160**	<1 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	**52**	**44**	**1900**	**1500**	**1700**	**1700**	**1700**	**21**
Chlorobenzene	108-90-7	**5**	ug/l	<1 U	<1 U	<80 U	<50 U	<50 U	<50 U	<50 U	<1 U
Chloroform	67-66-3	**7**	ug/l	**41**	**40**	**1100**	**780**	**820**	**820**	**980**	**23**
Methylene Chloride	75-09-2	**5**	ug/l	3	3.1	**85**	**51**	**43 J**	**51**	**50**	<1 U
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	4.2	3.2	**35 J**	**25 J**	**24 J**	**20 J**	**25 J**	**5.6**
Toluene	108-88-3	**5**	ug/l	<1 U	<1 U	<80 U	<50 U	<50 U	<50 U	<50 U	<1 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	2.2	1.9	**78 J**	**63**	**75**	**63**	**74**	2.3

Notes:
CAS - Chemical Abstract Service
ug/l - microgram per liter
RL - Reporting limit
<RL - Not detected
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Extraction Wells							
			Location	EW-5	EW-5	EW-5	EW-5	EW-6	EW-6	EW-6	EW-6
			Sample Name	EW-5-040224	EW-5-051624	EW-5-102324	EW-5-111924	EW-6-040224	EW-6-051624	EW-6-102324	EW-6-111924
			Sample Date	04/02/2024	05/16/2024	10/23/2024	11/19/2024	04/02/2024	05/16/2024	10/23/2024	11/19/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	<4 U	<4 U	<4 U	<4 U	<80 U	<200 U	<200 U	<200 U
Carbon Disulfide	75-15-0	**60**	ug/l	**220**	22	**<4 U**	**140**	**180**	<200 U	**140 J**	**160 J**
Carbon Tetrachloride	56-23-5	**5**	ug/l	**76**	**330**	**290**	**85**	**9000 D**	**8600**	**8500**	**14000**
Chlorobenzene	108-90-7	**5**	ug/l	<4 U	<4 U	<4 U	<4 U	<80 U	<200 U	<200 U	<200 U
Chloroform	67-66-3	**7**	ug/l	**71**	**81**	**160**	**90**	**3100**	**2400**	**3400**	**7500**
Methylene Chloride	75-09-2	**5**	ug/l	**<4 U**	<4 U	<4 U	<4 U	**79 J**	<200 U	<200 U	<200 U
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	**24**	**81**	**62**	**28**	**220**	**180 J**	**200**	**540**
Toluene	108-88-3	**5**	ug/l	<4 U	<4 U	<4 U	<4 U	<80 U	<200 U	<200 U	<200 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	**19**	40	81	**42**	**76 J**	<200 U	<200 U	**140 J**

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Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Extraction Wells						Flow Zone 10 Wells	
			Location	LR-66	OW-3	EW-7	EW-7	EW-7	EW-7	W-16L	W-18L
			Sample Name	LR-66-102324	OW-3-102324	EW-7-040224	EW-7-051624	EW-7-102324	EW-7-111924	W-16L-102424	W-18L-102424
			Sample Date	10/23/2024	10/23/2024	04/02/2024	05/16/2024	10/23/2024	11/19/2024	10/24/2024	10/24/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	<40 U	**97 J**	<100 U	<100 U	<100 U	<100 U	<1 U	<40 U
Carbon Disulfide	75-15-0	**60**	ug/l	<40 U	**120000 D**	49 J	<100 U	<100 U	<100 U	8.6	<40 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	**2000**	**610**	**6100**	**3600**	**6800**	**24000 D**	<1 U	**940**
Chlorobenzene	108-90-7	**5**	ug/l	<40 U	<100 U	<100 U	<100 U	<100 U	<100 U	<1 U	<40 U
Chloroform	67-66-3	**7**	ug/l	**330**	**1100**	**1300**	**1000**	**630**	**11000 D**	<1 U	**1000**
Methylene Chloride	75-09-2	**5**	ug/l	<40 U	<100 U	**62 J**	**61 J**	<100 U	**85 J**	<1 U	<40 U
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	**89**	**140**	<100 U	<100 U	**41 J**	**740**	<1 U	**87**
Toluene	108-88-3	**5**	ug/l	<40 U	**130**	<100 U	<100 U	<100 U	<100 U	<1 U	<40 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<40 U	<100 U	<100 U	<100 U	<100 U	**140**	<1 U	**65**

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Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Flow Zone 10 Wells					Flow Zone 11 Wells		
			Location	W-19B	W-65	W-66L	W-67L	W-70L	LR-16	LR-20	LR-48
			Sample Name	W-19B-102324	W-65-102424	W-66L-102424	W-67L-102324	W-70L-102424	LR-16-102424	LR-20-102424	LR-48-102324
			Sample Date	10/23/2024	10/24/2024	10/24/2024	10/23/2024	10/24/2024	10/24/2024	10/24/2024	10/23/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	0.98 J	<1 U	<1 U	<1 U	**3.3**	<1 U	<1 U	<1 U
Carbon Disulfide	75-15-0	**60**	ug/l	<1 U	<1 U	<1 U	10	<2 U	14	0.88 J	<1 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	**21**	<1 U	<1 U	0.88 J	<2 U	<1 U	<1 U	**9.6**
Chlorobenzene	108-90-7	**5**	ug/l	**59**	<1 U	<1 U	<1 U	**28**	<1 U	<1 U	**14**
Chloroform	67-66-3	**7**	ug/l	3.4	<1 U	<1 U	6.7	<2 U	<1 U	<1 U	3.9
Methylene Chloride	75-09-2	**5**	ug/l	<1 U	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	0.71 J	0.77 J	<1 U	3	<2 U	0.38 J	<1 U	4
Toluene	108-88-3	**5**	ug/l	0.71 J	<1 U	<1 U	<1 U	<2 U	<1 U	<1 U	<1 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	**6.3**	0.91 J	<1 U	**5.2**	<2 U	2.9	<1 U	3.5

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Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Flow Zone 11 Wells							Flow Zone 12 Wells
			Location	LR-49	LR-50	LR-51	LR-61	LR-62	LR-67	OW-5	R-19
			Sample Name	LR-49-102424	LR-50-102424	LR-51-102424	LR-61-102424	LR-62-102424	LR-67-102324	OW-5-102324	R-19-102324
			Sample Date	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/23/2024	10/23/2024	10/23/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	<1 U	<1 U	<1 U	<20 U	0.95 J	<200 U	<200 U	**8.1**
Carbon Disulfide	75-15-0	**60**	ug/l	<1 U	<1 U	<1 U	**450**	<1 U	**36000 D**	**8500**	<2 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	<1 U	<1 U	<1 U	**4000 D**	<1 U	<200 U	<200 U	**21**
Chlorobenzene	108-90-7	**5**	ug/l	1.1	0.89 J	1.7	**24**	<1 U	<200 U	<200 U	<2 U
Chloroform	67-66-3	**7**	ug/l	<1 U	<1 U	<1 U	**2500 D**	<1 U	**220**	<200 U	**18**
Methylene Chloride	75-09-2	**5**	ug/l	<1 U	<1 U	<1 U	**170**	<1 U	<200 U	<200 U	**17**
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	<1 U	<1 U	<1 U	**61**	<1 U	**850**	<200 U	1.1 J
Toluene	108-88-3	**5**	ug/l	<1 U	<1 U	<1 U	<20 U	<1 U	<200 U	<200 U	<2 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<1 U	<1 U	<1 U	**59**	0.78 J	**2300**	<200 U	<2 U

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Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Flow Zone 12 Wells							Flow Zone 13 Wells
			Location	R-48	R-60	R-60	R-67	R-68	R-80	R-16	IR-80
			Sample Name	R-48-102324	R-60-102424	R-60-102424-DUP	R-67-102324	R-68-102424	R-80-102424	R-16-102424	IR-80-102424
			Sample Date	10/23/2024	10/24/2024	10/24/2024	10/23/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)											
Benzene	71-43-2	**1**	ug/l	**1.2**	**6.9**	**6.5**	<1000 U	<10000 U	**160**	**140**	**9.3**
Carbon Disulfide	75-15-0	**60**	ug/l	<1 U	<1 U	0.74 J	**60000**	**580000**	**5000**	<20 U	**170**
Carbon Tetrachloride	56-23-5	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	**71000**	<100 U	<20 U	**16**
Chlorobenzene	108-90-7	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	<10000 U	<100 U	<20 U	<4 U
Chloroform	67-66-3	**7**	ug/l	<1 U	<1 U	<1 U	<1000 U	**86000**	**330**	<20 U	**170**
Methylene Chloride	75-09-2	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	<10000 U	<100 U	<20 U	**28**
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	<10000 U	<100 U	<20 U	2.9 J
Toluene	108-88-3	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	<10000 U	**59 J**	**50**	**6.2**
Trichloroethene (TCE)	79-01-6	**5**	ug/l	<1 U	<1 U	<1 U	<1000 U	<10000 U	<100 U	<20 U	<4 U

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Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Table 4
Summary of Groundwater Analytical Data
Former Stauffer Management Company Site
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

Analyte	CAS Number	NYSDEC SGVs	Flow Zone	Shallow Bedrock/Overburden Wells					
			Location	W-16	W-18R	W-20	W-23C	W-66	W-67
			Sample Name	W-16-102424	W-18R-102424	W-20-102424	W-23C-102424	W-66-102424	W-67-102324
			Sample Date	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/24/2024	10/23/2024
			Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds (ug/L)									
Benzene	71-43-2	**1**	ug/l	<1 U	<800 U	<2 U	<1 U	<1 U	<40 U
Carbon Disulfide	75-15-0	**60**	ug/l	<1 U	<800 U	<2 U	<1 U	<1 U	<40 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	<1 U	**36000**	<2 U	<1 U	**25**	**1300**
Chlorobenzene	108-90-7	**5**	ug/l	<1 U	<800 U	<2 U	<1 U	<1 U	<40 U
Chloroform	67-66-3	**7**	ug/l	1.4	**11000**	<2 U	1.5	**12**	**1300**
Methylene Chloride	75-09-2	**5**	ug/l	<1 U	<800 U	<2 U	<1 U	<1 U	**46**
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	**23**	**350 J**	<2 U	1.6	**24**	**79**
Toluene	108-88-3	**5**	ug/l	<1 U	<800 U	<2 U	<1 U	<1 U	<40 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	**17**	<800 U	<2 U	0.61 J	**11**	**210**

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Exceedance Summary:
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Table 5
System Extraction and Discharge Flow Rates
Former Stauffer Management Company, LLC
Lewiston, New York
Langan Project No.: 130117301
3/18/2025

Date	Duration of Operation Since Last Monitoring Event	Totalizer Readings											
		EW-1/EW-1R		EW-2		EW-3		EW-4/T-4		EW-5/DPA-201		EW-6	
		Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate
	Minutes	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM
1/8/2024	25,920	1,082,999	0.68	11,354,110	5.47	13,438,902	4.99	661,021	0.25	12,410,917	5.55	5,535,095	3.51
1/11/2024	4,320	1,096,682	3.17	11,454,044	23.13	13,526,448	20.27	665,309	0.99	12,524,345	26.26	5,600,876	15.23
1/18/2024	10,080	1,107,595	1.08	11,530,619	7.60	13,591,138	6.42	668,565	0.32	12,641,922	11.66	5,663,286	6.19
1/29/2024	15,840	1,115,046	0.47	11,619,025	5.58	13,661,153	4.42	671,869	0.21	12,772,447	8.24	5,726,747	4.01
2/2/2024	5,760	1,126,148	1.93	11,696,844	13.51	13,721,759	10.52	675,208	0.58	12,903,273	22.71	5,786,053	10.30
2/12/2024	14,400	1,135,620	0.66	11,806,565	7.62	13,802,013	5.57	680,087	0.34	13,062,678	11.07	5,859,956	5.13
2/21/2024	12,960	1,145,817	0.79	11,906,491	7.71	13,869,599	5.21	683,237	0.24	13,149,597	6.71	5,907,355	3.66
3/4/2024	17,280	1,157,474	0.67	12,037,646	7.59	13,950,597	4.69	683,237	0.00	13,210,836	3.54	5,952,467	2.61
3/14/2024	14,400	1,165,465	0.55	12,144,449	7.42	14,007,359	3.94	687,973	0.33	13,262,032	3.56	5,980,159	1.92
3/20/2024	8,640	1,174,036	0.99	12,203,310	6.81	14,054,515	5.46	690,876	0.34	13,303,523	4.80	5,994,168	1.62
3/28/2024	11,520	1,186,847	1.11	12,272,616	6.02	14,096,966	3.68	694,565	0.32	13,382,086	6.82	5,999,033	0.42
4/3/2024	8,640	1,196,156	1.08	12,333,247	7.02	14,141,552	5.16	697,346	0.32	13,454,804	8.42	6,004,967	0.69
4/10/2024	10,080	1,207,675	1.14	12,410,712	7.69	14,192,464	5.05	701,380	0.40	13,587,683	13.18	6,019,619	1.45
4/17/2024	10,080	1,218,964	1.12	12,485,349	7.40	14,243,799	5.09	702,370	0.10	13,715,991	12.73	6,035,108	1.54
4/24/2024	10,080	1,227,159	0.81	12,561,348	7.54	14,300,667	5.64	708,997	0.66	13,840,693	12.37	6,049,076	1.39
5/1/2024	10,080	1,238,906	1.17	12,617,494	5.57	14,375,794	7.45	712,785	0.38	13,964,731	12.31	6,057,880	0.87
5/16/2024	21,600	1,260,756	1.01	12,735,755	5.48	14,524,040	6.86	716,206	0.16	14,168,675	9.44	6,070,262	0.57
5/23/2024	10,080	1,270,943	1.01	12,794,252	5.80	14,558,883	3.46	719,719	0.35	14,224,912	5.58	6,075,035	0.47
6/7/2024	21,600	1,288,170	0.80	12,828,186	1.57	14,606,016	2.18	726,051	0.29	14,323,338	4.56	6,084,734	0.45
6/26/2024	27,360	1,308,829	0.76	13,086,428	9.44	14,639,950	1.24	735,247	0.34	14,503,608	6.59	6,116,586	1.16
7/15/2024	27,360	1,322,185	0.49	13,193,254	3.90	14,639,950	0.00	740,920	0.21	14,706,706	7.42	6,164,736	1.76
7/18/2024	4,320	1,333,202	2.55	13,282,642	20.69	14,639,950	0.00	745,624	1.09	14,901,280	45.04	6,200,376	8.25
7/25/2024	10,080	1,340,794	0.75	13,344,451	6.13	14,639,950	0.00	748,797	0.31	15,026,818	12.45	6,224,683	2.41
8/2/2024	11,520	1,349,227	0.73	13,411,312	5.80	14,639,950	0.00	752,259	0.30	15,148,361	10.55	6,251,685	2.34
8/14/2024	17,280	1,362,497	0.77	13,511,992	5.83	14,639,950	0.00	757,559	0.31	15,306,793	9.17	6,293,285	2.41
9/19/2024	51,840	1,394,467	0.62	13,769,158	4.96	14,911,746	5.24	770,142	0.24	15,569,555	5.07	6,337,724	0.86
9/30/2024	15,840	1,414,411	1.26	13,961,215	12.12	15,270,807	22.67	777,225	0.45	15,599,796	1.91	6,365,018	1.72
10/11/2024	15,840	1,427,869	0.85	14,157,713	12.41	15,630,026	22.68	784,563	0.46	15,630,948	1.97	6,391,089	1.65
10/22/2024	15,840	1,441,033	0.83	14,353,848	12.38	15,983,256	22.30	791,921	0.46	15,666,550	2.25	6,418,414	1.73
11/1/2024	14,400	1,452,772	0.82	14,528,967	12.16	16,287,053	21.10	797,710	0.40	15,696,988	2.11	6,439,140	1.44
11/12/2024	15,840	1,464,918	0.77	14,713,097	11.62	16,545,043	16.29	803,948	0.39	15,724,395	1.73	6,442,017	0.18
11/20/2024	11,520	1,473,597	0.75	14,850,557	11.93	16,747,127	17.54	808,576	0.40	15,749,325	2.16	6,444,675	0.23
11/27/2024	10,080	1,480,736	0.71	14,966,559	11.51	16,912,437	16.40	812,445	0.38	15,768,198	1.87	6,444,745	0.01
12/6/2024	12,960	1,490,200	0.73	15,120,796	11.90	17,123,407	16.28	817,401	0.38	15,792,783	1.90	6,444,751	0.00
12/16/2024	14,400	1,500,024	0.68	15,287,222	11.56	17,374,661	17.45	823,043	0.39	15,822,934	2.09	6,444,792	0.00
12/23/2024	10,080	1,507,096	0.70	15,405,583	11.74	17,574,770	19.85	827,169	0.41	15,843,790	2.07	6,447,874	0.31
1/2/2025	14,400	1,511,651	0.32	15,577,101	11.91	17,877,054	20.99	833,244	0.42	15,869,568	1.79	6,459,631	0.82
Totals / Averages		**428,652**	**0.95**	**4,222,991**	**9.04**	**4,438,152**	**9.08**	**172,223**	**0.38**	**3,458,651**	**8.31**	**924,536**	**2.41**

Notes:
GPM - gallons per minute
1. Grey boxes denote calculated data
2. Calculated flow rates assume the well was operating at all times within that particular operational timeframe.

Prepared by: MW
Reviewed by: SB
\\langan.com\data\LAW\data3\130117301\Project Data_Discipline\Environmental\Treatment System OM&M\2025-0203 Master Extraction Volume Data

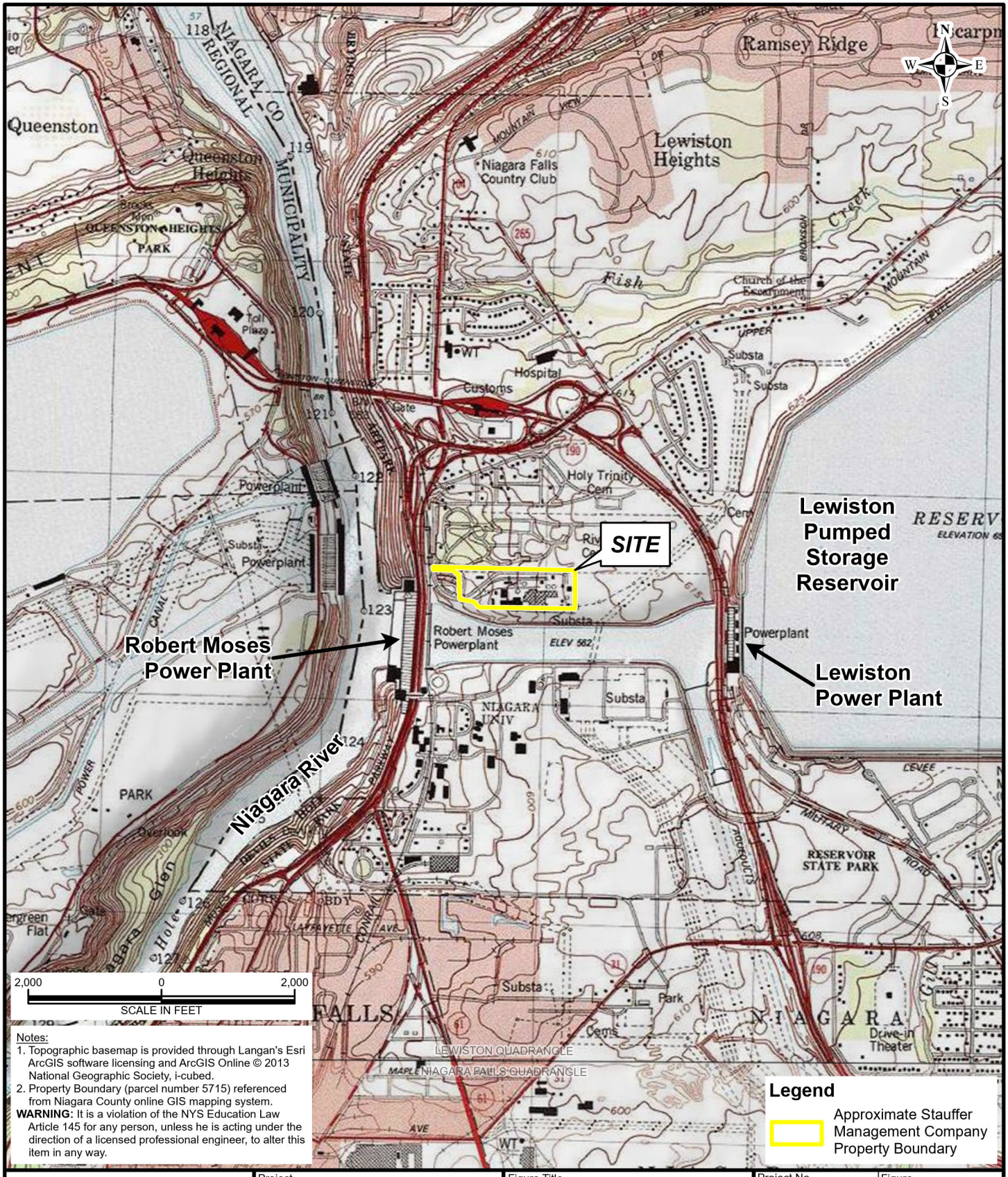
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Table 5
System Extraction and Discharge Flow Rates
Former Stauffer Management Company, LLC
Lewiston, New York
Langan Project No.: 130117301
3/18/2025

Date	Duration of Operation Since Last Monitoring Event	Totalizer Readings											
		DPA-202		DPA-203/EW-7		OW-3		LR-66		Sum of Influent		Effluent	
		Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Totalizer	Calculated Flow Rate	Sum of Totalizers	Sum of Flow Rates	Totalizer	Calculated Flow Rate
	Minutes	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM	Gallons	GPM
1/8/2024	25,920	419,435	0.48	4,811	0.000	10,059,889	0.101	1,017,904	0.266	55,985,083	21.3	74,849,273	17.0
1/11/2024	4,320	429,458	2.32	4,811	0.000	10,061,478	0.368	1,023,044	1.190	56,386,495	92.9	75,157,975	71.5
1/18/2024	10,080	434,019	0.45	4,811	0.000	10,062,582	0.110	1,027,190	0.411	56,731,727	34.2	75,416,516	25.6
1/29/2024	15,840	438,844	0.30	4,811	0.000	10,064,111	0.097	1,031,942	0.300	57,105,995	23.6	75,777,816	22.8
2/2/2024	5,760	439,544	0.12	4,886	0.013	10,065,301	0.207	1,031,946	0.001	57,450,962	59.9	75,921,503	24.9
2/12/2024	14,400	439,545	0.00	4,890	0.000	10,066,569	0.088	1,031,946	0.000	57,889,869	30.5	76,237,930	22.0
2/21/2024	12,960	439,545	0.00	4,890	0.000	10,067,515	0.073	1,031,946	0.000	58,205,992	24.4	76,479,272	18.6
3/4/2024	17,280	444,216	0.27	4,973	0.005	10,068,765	0.072	1,032,198	0.015	58,542,409	19.5	76,692,845	12.4
3/14/2024	14,400	444,216	0.00	4,973	0.000	10,069,812	0.073	1,032,199	0.000	58,798,637	17.8	76,987,495	20.5
3/20/2024	8,640	454,168	1.15	5,034	0.007	10,069,934	0.014	1,032,220	0.002	58,981,784	21.2	77,134,391	17.0
3/28/2024	11,520	458,864	0.41	5,057	0.002	10,069,942	0.001	1,032,234	0.001	59,198,210	18.8	77,352,341	18.9
4/3/2024	8,640	463,959	0.59	5,114	0.007	10,069,942	0.000	1,034,391	0.250	59,401,478	23.5	77,525,213	20.0
4/10/2024	10,080	472,430	0.84	5,115	0.000	10,069,944	0.000	1,037,910	0.349	59,704,932	30.1	77,775,027	24.8
4/17/2024	10,080	472,464	0.00	5,148	0.003	10,069,945	0.000	1,037,992	0.008	59,987,130	28.0	78,013,870	23.7
4/24/2024	10,080	472,508	0.00	5,148	0.000	10,069,946	0.000	1,037,992	0.000	60,273,534	28.4	78,251,135	23.5
5/1/2024	10,080	472,564	0.01	5,148	0.000	10,069,946	0.000	1,037,992	0.000	60,553,240	27.7	78,471,318	21.8
5/16/2024	21,600	482,881	0.48	5,299	0.007	10,070,037	0.004	1,042,653	0.216	61,076,564	24.2	78,876,486	18.8
5/23/2024	10,080	488,547	0.56	5,370	0.007	10,070,059	0.002	1,046,113	0.343	61,253,833	17.6	79,045,130	16.7
6/7/2024	21,600	498,985	0.48	5,370	0.000	10,070,376	0.015	1,053,126	0.325	61,484,352	10.7	79,394,498	16.2
6/26/2024	27,360	512,547	0.50	5,401	0.001	10,070,377	0.000	1,060,748	0.279	62,039,721	20.3	79,747,043	12.9
7/15/2024	27,360	522,172	0.35	5,401	0.000	10,070,377	0.000	1,067,144	0.234	62,432,845	14.4	79,944,142	7.2
7/18/2024	4,320	531,689	2.20	5,401	0.000	10,070,377	0.000	1,072,483	1.236	62,783,024	81.1	80,127,030	42.3
7/25/2024	10,080	538,232	0.65	5,401	0.000	10,070,377	0.000	1,075,896	0.339	63,015,399	23.1	80,221,371	9.4
8/2/2024	11,520	543,897	0.49	5,401	0.000	10,070,377	0.000	1,079,237	0.290	63,251,706	20.5	80,332,029	9.6
8/14/2024	17,280	548,064	0.24	5,401	0.000	10,070,377	0.000	1,084,135	0.283	63,580,053	19.0	80,484,105	8.8
9/19/2024	51,840	548,382	0.01	6,501	0.021	10,070,377	0.000	1,090,312	0.119	64,468,364	17.1	80,876,147	7.6
9/30/2024	15,840	548,797	0.03	9,032	0.160	10,070,377	0.000	1,095,030	0.298	65,111,708	40.6	81,122,630	15.6
10/11/2024	15,840	548,895	0.01	10,019	0.062	10,070,377	0.000	1,098,856	0.242	65,750,355	40.3	81,352,244	14.5
10/22/2024	15,840	548,895	0.00	10,019	0.000	10,070,377	0.000	1,098,856	0.000	66,383,169	40.0	81,573,544	14.0
11/1/2024	14,400	548,895	0.00	10,108	0.006	10,070,377	0.000	1,102,501	0.253	66,934,511	38.3	81,762,371	13.1
11/12/2024	15,840	548,918	0.00	10,113	0.000	10,070,377	0.000	1,105,696	0.202	67,428,522	31.2	81,943,295	11.4
11/20/2024	11,520	552,102	0.28	10,203	0.008	10,070,377	0.000	1,107,153	0.126	67,813,692	33.4	82,046,822	9.0
11/27/2024	10,080	554,814	0.27	10,203	0.000	10,070,377	0.000	1,107,961	0.080	68,128,475	31.2	82,192,502	14.5
12/6/2024	12,960	558,725	0.30	10,203	0.000	10,070,377	0.000	1,108,840	0.068	68,537,483	31.6	82,344,643	11.7
12/16/2024	14,400	558,725	0.00	10,203	0.000	10,070,377	0.000	1,109,492	0.045	69,001,473	32.2	82,519,195	12.1
12/23/2024	10,080	558,725	0.00	10,203	0.000	10,070,377	0.000	1,109,533	0.004	69,355,120	35.1	82,651,538	13.1
1/2/2025	14,400	558,726	0.00	10,203	0.000	10,070,377	0.000	1,109,546	0.001	69,877,101	36.2	82,847,042	13.6
Totals / Averages		**139,291**	**0.37**	**5,392**	**0.01**	**10,488**	**0.03**	**91,642**	**0.21**	**13,892,018**	**30.8**	**7,997,769**	**18.3**

Notes:
GPM - gallons per minute
1. Grey boxes denote calculated data
2. Calculated flow rates assume the well was operating at all times within that particular operational timeframe.

FIGURES



Notes:
1. Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS Online © 2013 National Geographic Society, i-cubed.
2. Property Boundary (parcel number 5715) referenced from Niagara County online GIS mapping system.

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Legend

Approximate Stauffer Management Company Property Boundary

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Project	STAUFFER MANAGEMENT COMPANY LEWISTON NIAGARA COUNTY NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	130117301
Date	4/30/2024
Scale	1"=2,000'
Drawn By	SH
Figure	1

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Legend

- Approximate Monitoring Well Location
- Appproximate Abandoned Monitoring Well Location
- Approximate Monitoring Well Location Not Included in Monitoring Program
- Approximate Extraction Well Location
- Approximate Abandoned Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Treatment Building
- Effluent Piping
- Extraction Header Piping
- Fence
- Approximate Location of Existing Grout Curtain

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/17/2025.
2. Property boundary digitized from Niagara County online GIS system.

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Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.
Langan International LLC

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Project

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LEWISTON

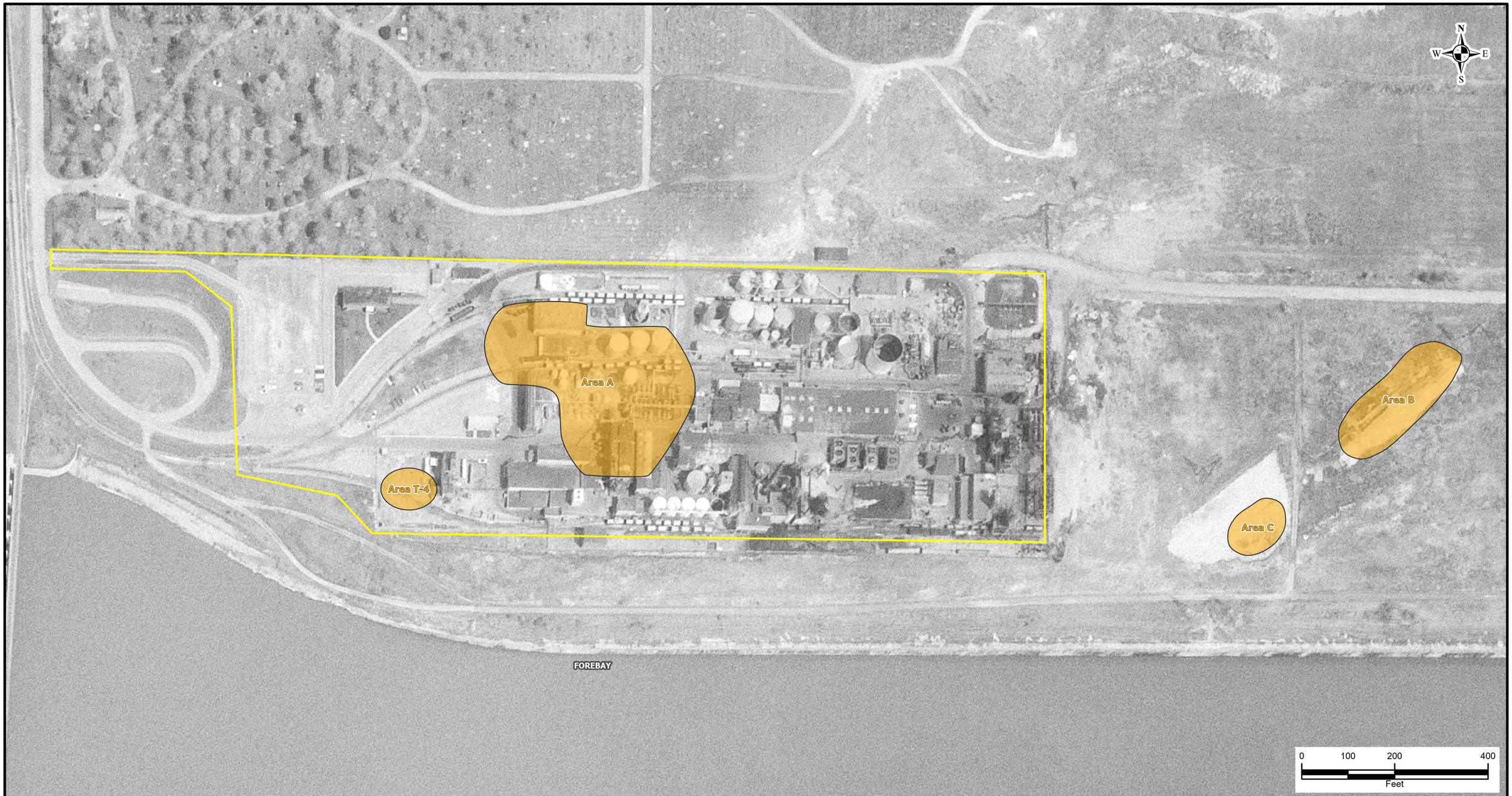
NIAGARA NEW YORK

Figure

SITE PLAN

Project No.	130117301
Date	8/14/2025
Scale	1"=280'
Drawn By	SH
Figure	2

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Legend

- Approximate Stauffer Management Company Property Boundary
- Site Feature Area

Notes:
1. Historic aerial provided by USGS. Dated 5/13/1972.
2. Property boundary digitized from Niagara County online GIS system.

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Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.
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Figure
SITE FEATURES

Project No.	130117301
Date	5/3/2024
Scale	1"=200'
Drawn By	SH
Figure	3

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 570 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

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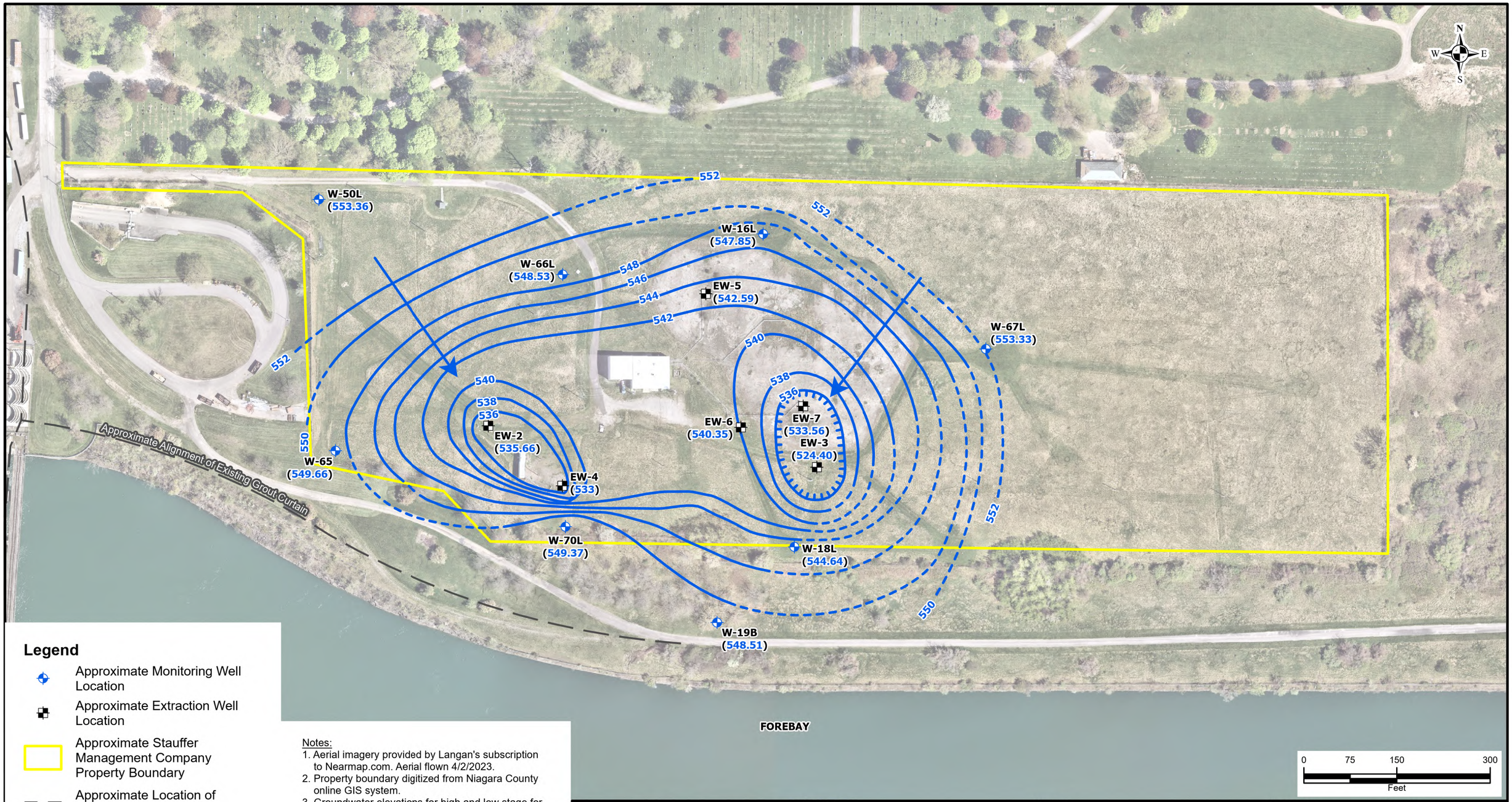
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Project	**STAUFFER MANAGEMENT COMPANY** LEWISTON NIAGARA NEW YORK
Figure	**GROUNDWATER POTENTIOMETRIC SURFACE - OVERBURDEN/ SHALLOW BEDROCK 10/9/2024**
Project No.	130117301
Date	4/17/2025
Scale	1"=150'
Drawn By	SH
Figure	4

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 540 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.
3. Groundwater elevations for high and low stage for W-50L were not available because of transducer malfunction. Groundwater elevation at the time of the sampling event is provided for W-50L.

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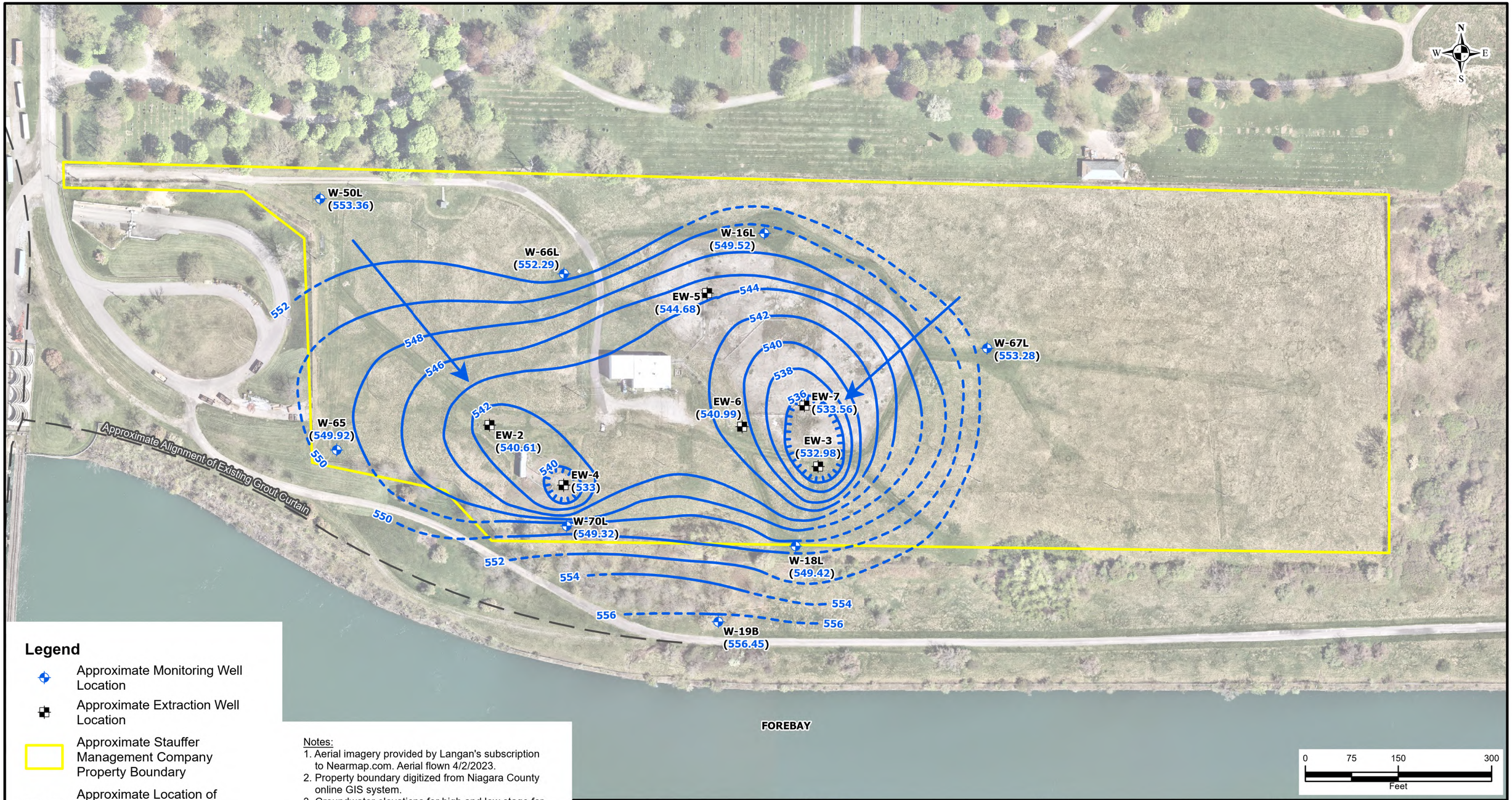
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Project	STAUFFER MANAGEMENT COMPANY LEWISTON NIAGARA NEW YORK
Figure	GROUNDWATER POTENTIOMETRIC SURFACE - FLOW ZONE 10 (LOW STAGE) 10/5/2024 00:30
Project No.	130117301
Date	4/30/2025
Scale	1"=150'
Drawn By	SH
Figure	5A

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 540 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.
3. Groundwater elevations for high and low stage for W-50L were not available because of transducer malfunction. Groundwater elevation at the time of the sampling event is provided for W-50L.

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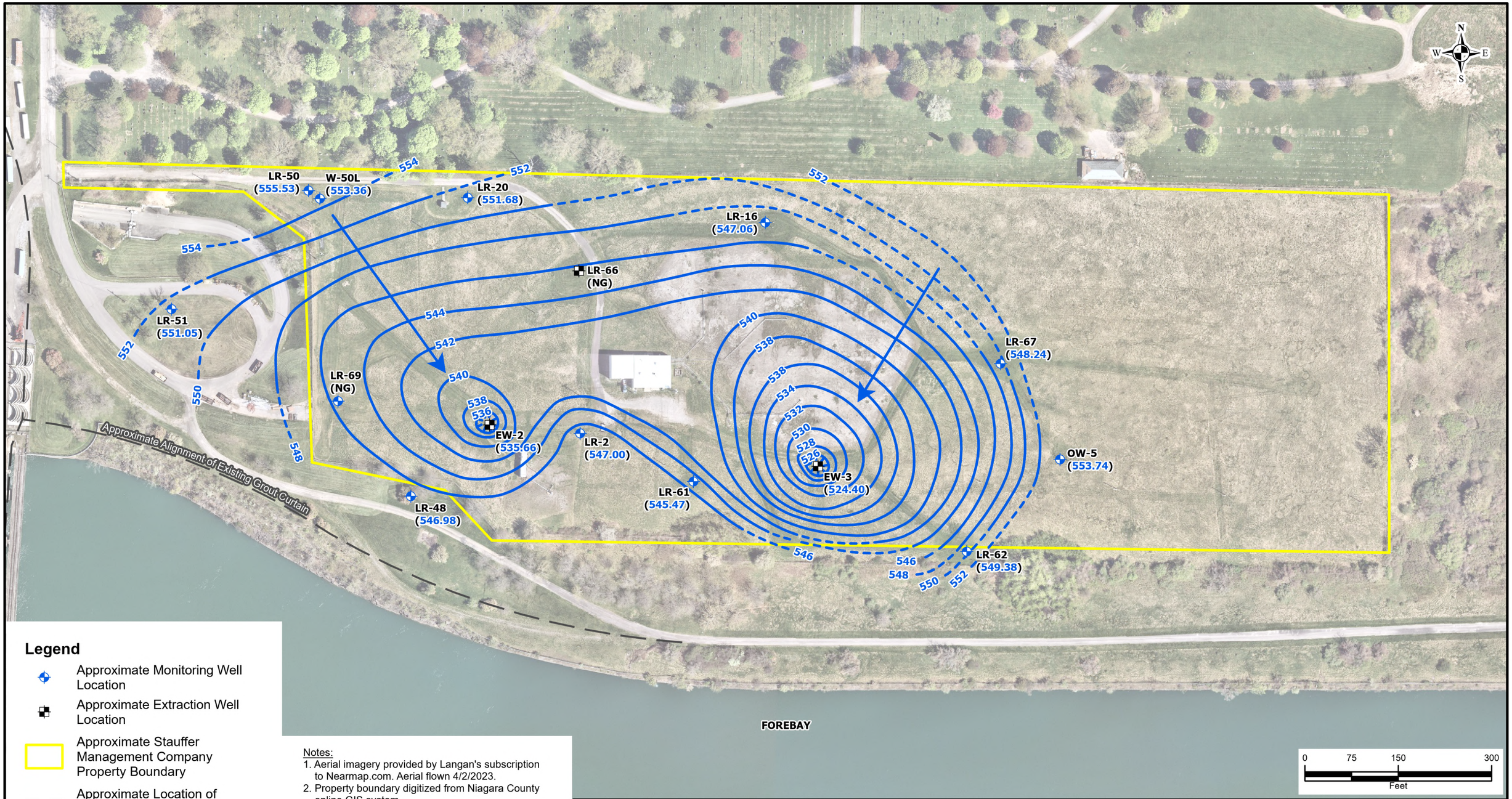
Figure
GROUNDWATER POTENTIOMETRIC SURFACE - FLOW ZONE 10 (HIGH STAGE) 10/5/2024 17:00

Project No.	130117301
Date	4/30/2025
Scale	1"=150'
Drawn By	SH

Figure 5B

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 540 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.
3. Groundwater elevation at the time of sampling event was used for contours because there are no transducers in LR-16, LR-51, LR-67, and OW-5.

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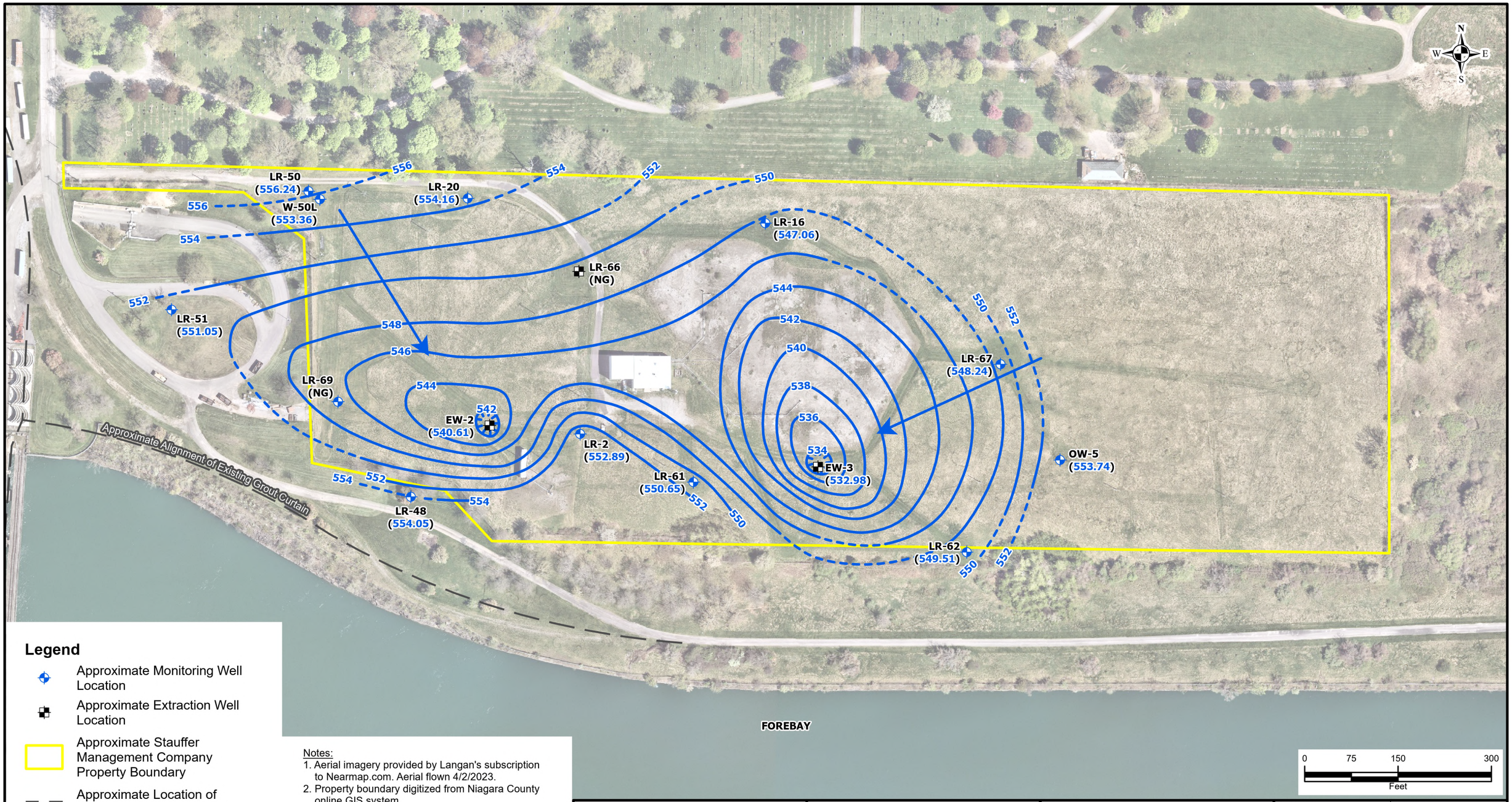
Figure
GROUNDWATER POTENTIOMETRIC SURFACE - FLOW ZONE 11 (LOW STAGE) 10/5/2024 00:30

Project No.	130117301
Date	4/10/2025
Scale	1"=150'
Drawn By	SH

Figure 6A

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 540 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.
3. Groundwater elevation at the time of sampling event was used for contours because there are no transducers in LR-16, LR-51, LR-67, and OW-5.

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Figure
GROUNDWATER POTENTIOMETRIC SURFACE - FLOW ZONE 11 (HIGH STAGE) 10/5/2024 17:00

Project No.	130117301
Date	4/10/2025
Scale	1"=150'
Drawn By	SH
Figure	6B

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Legend

- Approximate Monitoring Well Location
- Appproximate Abandoned Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Abandoned Extraction Well Location
- Approximate Stauffer Management Company Property Boundary
- Approximate Location of Existing Grout Curtain
- Groundwater Flow Direction
- Groundwater Elevation Contour (Dashed Where Inferred)
- 540 Groundwater Elevation (Feet)

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

NG – Not Gauged

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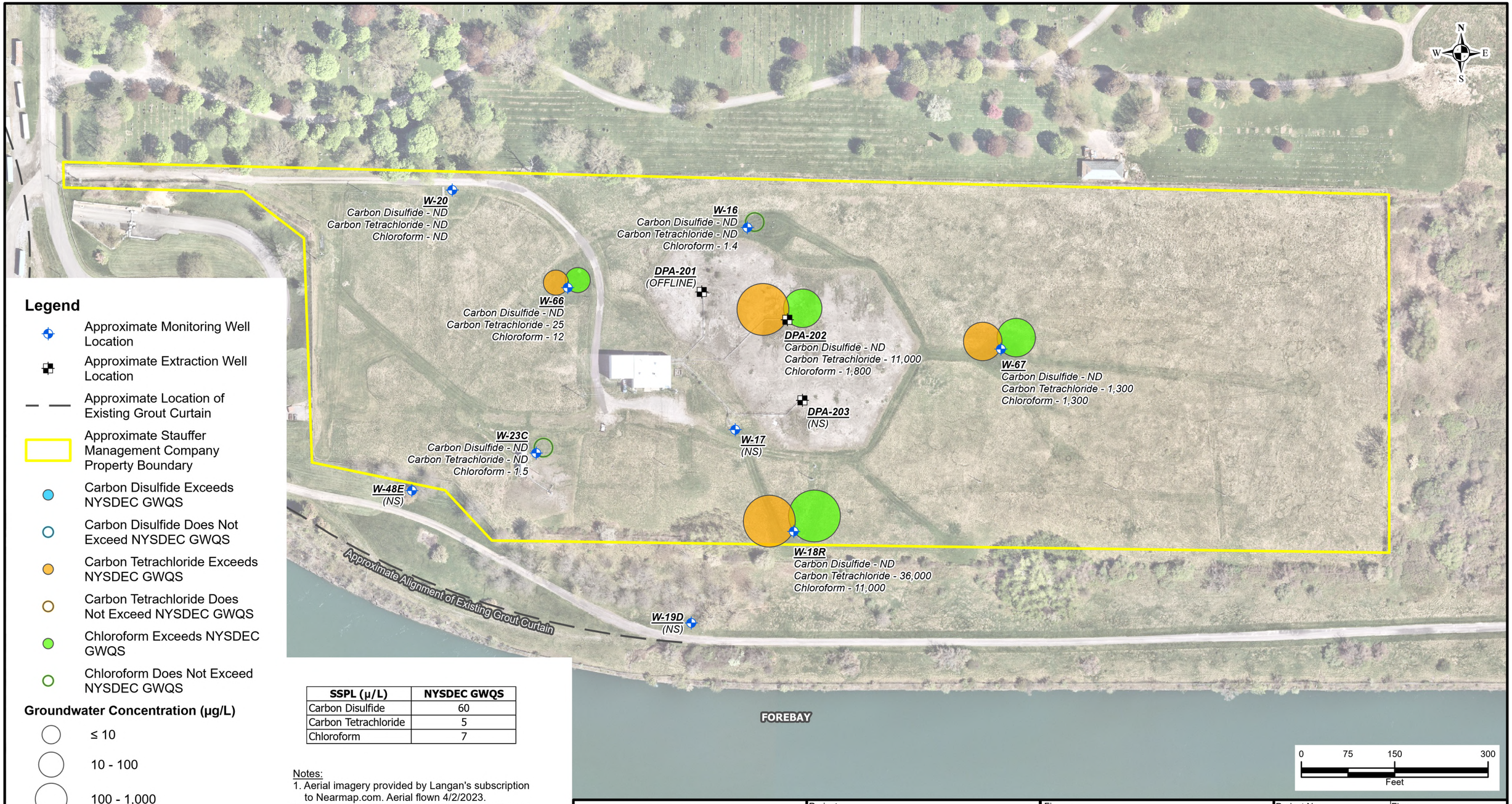
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Project	**STAUFFER MANAGEMENT COMPANY** LEWISTON NIAGARA NEW YORK
Figure	**GROUNDWATER POTENTIOMETRIC SURFACE - FLOW ZONE 12 10/9/2024**
Project No.	130117301
Date	4/10/2025
Scale	1"=150'
Drawn By	SH
Figure	7

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Location of Existing Grout Curtain
- Approximate Stauffer Management Company Property Boundary
- Carbon Disulfide Exceeds NYSDEC GWQS
- Carbon Disulfide Does Not Exceed NYSDEC GWQS
- Carbon Tetrachloride Exceeds NYSDEC GWQS
- Carbon Tetrachloride Does Not Exceed NYSDEC GWQS
- Chloroform Exceeds NYSDEC GWQS
- Chloroform Does Not Exceed NYSDEC GWQS

Groundwater Concentration (µg/L)

- ≤ 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000

SSPL (µ/L)	NYSDEC GWQS
Carbon Disulfide	60
Carbon Tetrachloride	5
Chloroform	7

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

NS – Not Sampled
ND – Non-Detect

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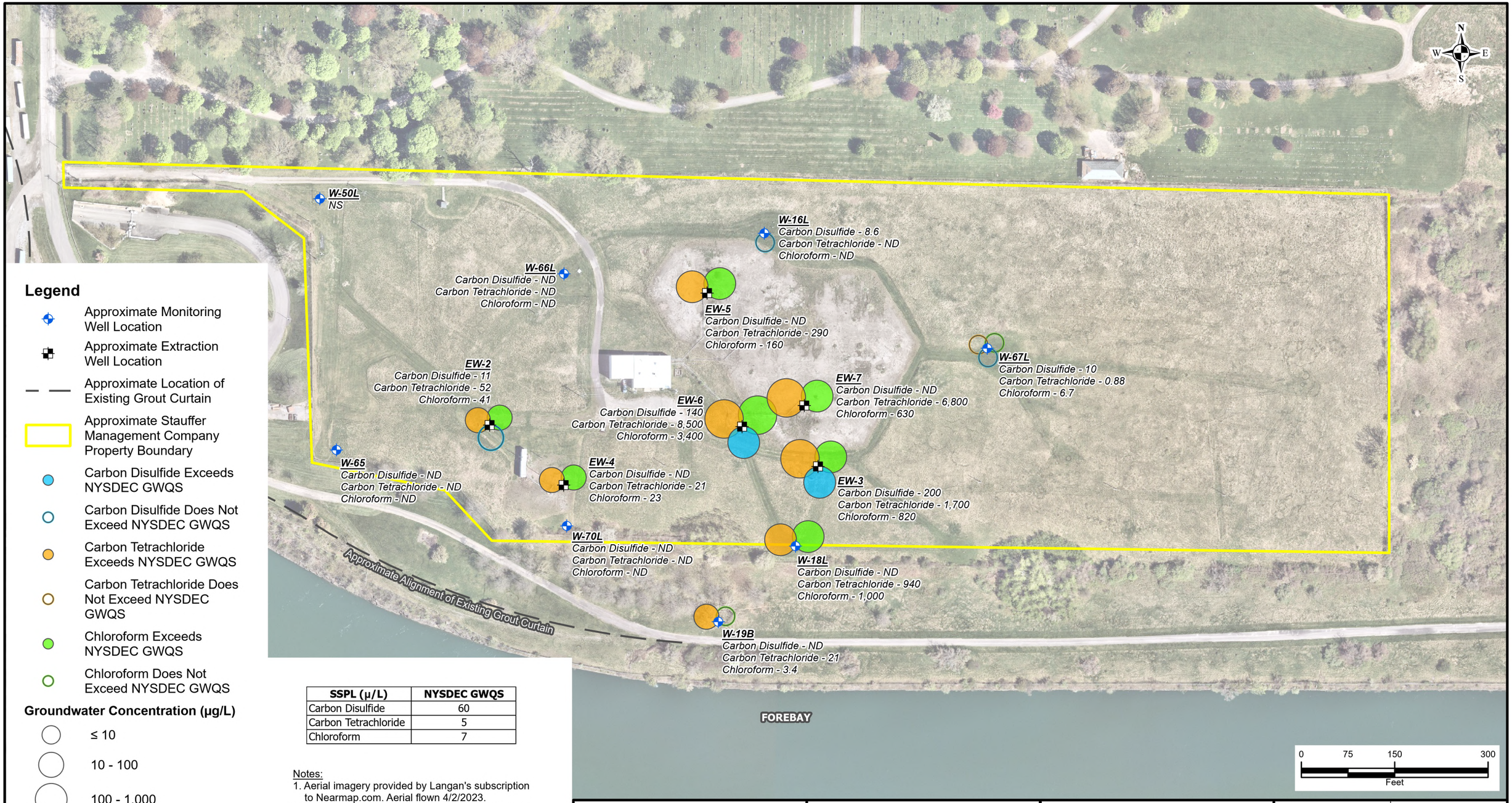
Figure
2024 GROUNDWATER ANALYTICAL RESULTS FOR CARBON DISULFIDE, CARBON TETRACHLORIDE, AND CHLOROFORM – OVERBURDEN AND SHALLOW BEDROCK

Project No.	130117301
Date	3/25/2025
Scale	1"=150'
Drawn By	SH

Figure 8

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Location of Existing Grout Curtain
- Approximate Stauffer Management Company Property Boundary
- Carbon Disulfide Exceeds NYSDEC GWQS
- Carbon Disulfide Does Not Exceed NYSDEC GWQS
- Carbon Tetrachloride Exceeds NYSDEC GWQS
- Carbon Tetrachloride Does Not Exceed NYSDEC GWQS
- Chloroform Exceeds NYSDEC GWQS
- Chloroform Does Not Exceed NYSDEC GWQS

Groundwater Concentration (µg/L)

- ≤ 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000

SSPL (µ/L)	NYSDEC GWQS
Carbon Disulfide	60
Carbon Tetrachloride	5
Chloroform	7

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

NS – Not Sampled
ND – Non-Detect

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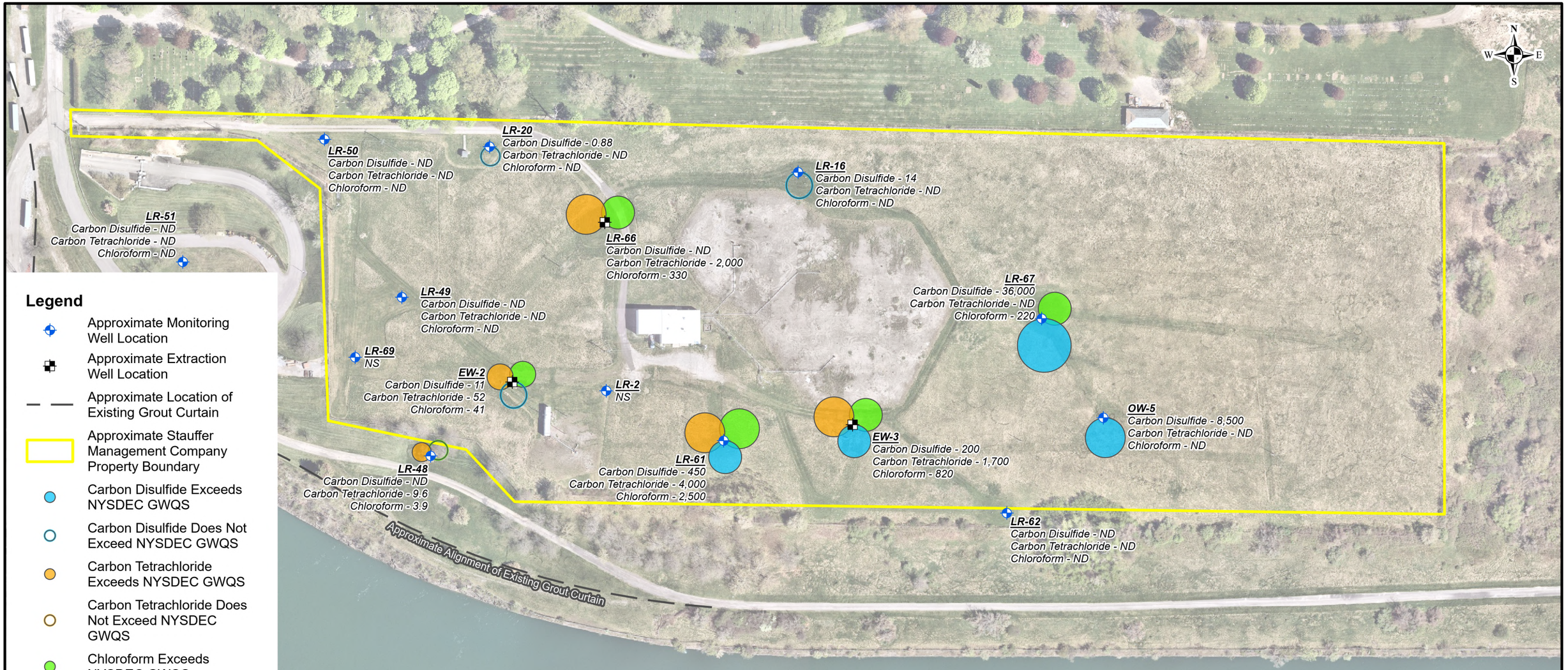
Figure

2024 GROUNDWATER ANALYTICAL RESULTS FOR CARBON DISULFIDE, CARBON TETRACHLORIDE, AND CHLOROFORM – FLOW ZONE 10

Project No.	130117301
Date	4/4/2025
Scale	1"=150'
Drawn By	SH

Figure 9

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Location of Existing Grout Curtain
- Approximate Stauffer Management Company Property Boundary
- Carbon Disulfide Exceeds NYSDEC GWQS
- Carbon Disulfide Does Not Exceed NYSDEC GWQS
- Carbon Tetrachloride Exceeds NYSDEC GWQS
- Carbon Tetrachloride Does Not Exceed NYSDEC GWQS
- Chloroform Exceeds NYSDEC GWQS
- Chloroform Does Not Exceed NYSDEC GWQS

Groundwater Concentration (µg/L)

- ≤ 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000

SSPL (µ/L)	NYSDEC GWQS
Carbon Disulfide	60
Carbon Tetrachloride	5
Chloroform	7

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

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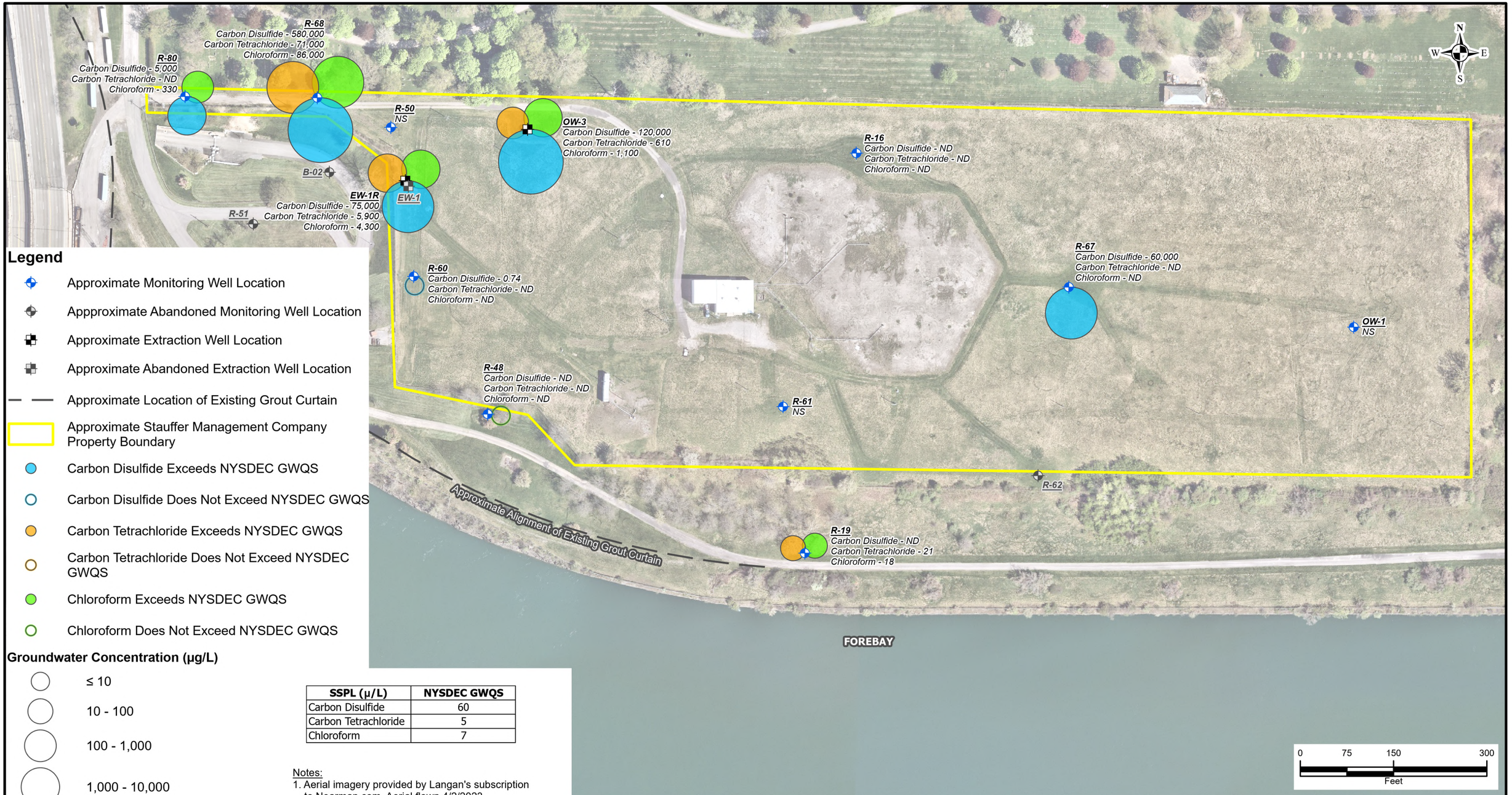
Figure
2024 GROUNDWATER ANALYTICAL RESULTS FOR CARBON DISULFIDE, CARBON TETRACHLORIDE, AND CHLOROFORM – FLOW ZONE 11

Project No.	130117301
Date	3/26/2025
Scale	1"=150'
Drawn By	SH

Figure 10

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Legend

- Approximate Monitoring Well Location
- Appproximate Abandoned Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Abandoned Extraction Well Location
- Approximate Location of Existing Grout Curtain
- Approximate Stauffer Management Company Property Boundary
- Carbon Disulfide Exceeds NYSDEC GWQS
- Carbon Disulfide Does Not Exceed NYSDEC GWQS
- Carbon Tetrachloride Exceeds NYSDEC GWQS
- Carbon Tetrachloride Does Not Exceed NYSDEC GWQS
- Chloroform Exceeds NYSDEC GWQS
- Chloroform Does Not Exceed NYSDEC GWQS

Groundwater Concentration (µg/L)

- ≤ 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000
- 100,000 - 1,000,000

SSPL (µ/L)	NYSDEC GWQS
Carbon Disulfide	60
Carbon Tetrachloride	5
Chloroform	7

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

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ND – Non-Detect

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Figure
2024 GROUNDWATER ANALYTICAL RESULTS FOR CARBON DISULFIDE, CARBON TETRACHLORIDE, AND CHLOROFORM – FLOW ZONE 12

Project No.	130117301
Date	3/27/2025
Scale	1"=150'
Drawn By	SH
Figure	11

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Legend

- Approximate Monitoring Well Location
- Approximate Extraction Well Location
- Approximate Location of Existing Grout Curtain
- Approximate Stauffer Management Company Property Boundary
- Carbon Disulfide Exceeds NYSDEC GWQS
- Carbon Tetrachloride Exceeds NYSDEC GWQS
- Chloroform Exceeds NYSDEC GWQS

Groundwater Concentration (µg/L)

- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- 10,000 - 100,000

SSPL (µ/L)	NYSDEC GWQS
Carbon Disulfide	60
Carbon Tetrachloride	5
Chloroform	7

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Aerial flown 4/2/2023.
2. Property boundary digitized from Niagara County online GIS system.

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Figure
2024 GROUNDWATER ANALYTICAL RESULTS FOR CARBON DISULFIDE, CARBON TETRACHLORIDE, AND CHLOROFORM – FLOW ZONE 13

Project No.	130117301
Date	3/27/2025
Scale	1"=150'
Drawn By	SH

Figure 12

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APPENDIX A

GROUNDWATER TREATMENT SYSTEM
2024 PROCESS MONITORING DATA

Appendix A-1
Pump and Treat System Monthly Influent Analytical Results
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
7/23/2025

Analyte	CAS Number	NYSDEC SGVs (ug/L)	Location	INF	INF	INF	INF	INF	INF	INF	INF	INF	INF	INF	INF
			Sample Name	INF-011624	INF-030124	INF-040224	INF-041724	INF-051624	INF-061424	INF-071824	INF-081424	INF-091724	INF-102324	INF-111924	INF-121624
			Sample Date	01/16/2024	03/01/2024	04/02/2024	04/17/2024	05/16/2024	06/14/2024	07/18/2024	08/14/2024	09/17/2024	10/23/2024	11/19/2024	12/16/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds															
Benzene	71-43-2	1	ug/l	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<40 U	<40 U	<40 U	<1 U
Carbon Disulfide	75-15-0	**60**	ug/l	**290**	**430**	**820**	**770**	**640**	**360**	**1600**	**1400**	**900**	**1800**	**860**	<1 U
Carbon Tetrachloride	56-23-5	**5**	ug/l	**3100**	**3700**	**3100**	**3800**	**3000**	**3500**	**4100**	**1900**	**1700**	**2600**	**2000**	**5.1**
Chlorobenzene	108-90-7	5	ug/l	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<40 U	<40 U	<40 U	<1 U
Chloroform	67-66-3	**7**	ug/l	**1200**	**1500**	**1100**	**1400**	**1000**	**1200**	**1100**	**980**	**1500**	**1200**	**1000**	2.2
Methylene Chloride	75-09-2	**5**	ug/l	**59 BJ**	**91**	**52 J**	<80 U	**55 J**	**77 J**	**58 J**	**76 J**	**160**	**100**	**52**	0.77 J
Tetrachloroethene (PCE)	127-18-4	**5**	ug/l	**93**	**82**	**81**	**100**	**76 J**	**89**	**110**	**68 J**	**50**	**46**	**43**	0.56 J
Toluene	108-88-3	5	ug/l	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<80 U	<40 U	<40 U	<40 U	<1 U
Trichloroethene (TCE)	79-01-6	**5**	ug/l	**66 J**	**79 J**	**60 J**	**68 J**	**54 J**	**78 J**	**43 J**	**49 J**	**86**	**78**	**55**	<1 U
Total Concentration	-	NS	ug/l	5048	6122	5453	6458	5065	5544	7251	4713	4516	5944	4130	13.63

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
RL - Reporting limit
<RL - Not detected
Groundwater sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 Codes, Rules, and Regulations (NYCRR) Part 703.5 and the NYSDEC Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA Water and published addenda (herein collectively referenced as "NYSDEC SGVs").

Qualifiers:
B - Indicates the analyte is detected in the assiciated blank as well and the sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:
10 - Result exceeds NYSDEC SGVs

Prepared by: MW
Reviewed by: SB
\\langan.com\data\LAW\data3\130117301\Project Data_Discipline\Environmental\Reports\Annual OM&M Report\2024\July 2025 Revised Annual OMM Report\Appendices\App A and B - Process Monitoring and SPDES Results\Lewistown_GW_20

Appendix A-2
Pump and Treat System Weekly Mid-Carbon Analytical Results
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
8/14/2025

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT
			Sample Name	CBT-010824	CBT-011624	CBT-020224	CBT-030124	CBT-040224	CBT-041724	CBT-050124	CBT-051624	CBT-060424	CBT-061424	CBT-070824	CBT-071824
			Sample Date	01/08/2024	01/16/2024	02/02/2024	03/01/2024	04/02/2024	04/17/2024	05/01/2024	05/16/2024	06/04/2024	06/14/2024	07/08/2024	07/18/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds															
Benzene	71-43-2	10	ug/l	<1 U	<10 U	<10 U	<20 U	<1 U	<1 U	<8 U	<8 U	<1 U	<1 U	<1 U	<1 U
Carbon Disulfide	75-15-0	Monitor	ug/l	0.75 J	<10 U	<10 U	4.3 J	0.3 J	<1 U	<8 U	<8 U	<1 U	<1 U	0.34 J	<1 U
Carbon Tetrachloride	56-23-5	**10**	ug/l	8.1	**30**	**290**	**210**	<1 U	<1 U	<8 U	3.2 J	<1 U	<1 U	<1 U	<1 U
Chlorobenzene	108-90-7	10	ug/l	<1 U	<10 U	<10 U	<20 U	<1 U	<1 U	<8 U	<8 U	<1 U	<1 U	<1 U	<1 U
Chloroform	67-66-3	**10**	ug/l	**310 D**	**510**	**1,300 D**	**1,700**	0.39 J	**46**	**260**	**470**	<1 U	<1 U	<1 U	<1 U
Methylene Chloride	75-09-2	**10**	ug/l	**27**	**48 B**	**89**	**99**	4	**26**	**60**	**52**	<1 U	<1 U	<1 U	<1 U
Tetrachloroethene (PCE)	127-18-4	10	ug/l	<1 U	<10 U	<10 U	<20 U	<1 U	<1 U	<8 U	<8 U	<1 U	<1 U	<1 U	<1 U
Toluene	108-88-3	10	ug/l	<1 U	<10 U	<10 U	<20 U	<1 U	<1 U	<8 U	<8 U	<1 U	<1 U	<1 U	<1 U
Trichloroethene (TCE)	79-01-6	10	ug/l	<1 U	<10 U	<10 U	<20 U	<1 U	<1 U	<8 U	<8 U	<1 U	<1 U	<1 U	<1 U
Total Concentration	-	NS	ug/l	345.85	588	1679	2013.3	4.69	72	320	525.2	ND	ND	0.34	ND

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
ND - Not detected
RL - Reporting limit
<RL - Not detected
Results compared to Discharge Limit (Daily Maximum)

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B - The analyte was found in the associated analysis batch blank.

Exceedance Summary:
10 - Result exceeds Discharge Limit (Daily Maximum)

Appendix A-2
Pump and Treat System Weekly Mid-Carbon Analytical Results
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
8/14/2025

Analyte	CAS Number	Discharge Limit (Daily Maximum)	Location	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT	CBT
			Sample Name	CBT-080224	CBT-081424	CBT-091024	CBT-091724	CBT-100224	CBT-102324	CBT-110124	CBT-111924	CBT-120524	CBT-121624
			Sample Date	08/02/2024	08/14/2024	09/10/2024	09/17/2024	10/02/2024	10/23/2024	11/01/2024	11/19/2024	12/05/2024	12/16/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds													
Benzene	71-43-2	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Carbon Disulfide	75-15-0	Monitor	ug/l	0.36 J	<1 U	<1 U	0.52 J	<1 U	<1 U	0.25 J	<1 U	<1 U	<1 U
Carbon Tetrachloride	56-23-5	**10**	ug/l	<1 U	<1 U	<1 U	<1 U	0.47 J	**30**	**48**	<1 U	<1 U	<1 U
Chlorobenzene	108-90-7	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chloroform	67-66-3	**10**	ug/l	<1 U	<1 U	1.1	9.4	**45**	**140 D**	**160 D**	<1 U	<1 U	<1 U
Methylene Chloride	75-09-2	**10**	ug/l	<1 U	<1 U	<1 U	7.1	**51**	**23**	**21**	<1 U	<1 U	0.86 J
Tetrachloroethene (PCE)	127-18-4	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Toluene	108-88-3	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Trichloroethene (TCE)	79-01-6	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Total Concentration	-	NS	ug/l	0.36	ND	1.1	17.02	96.47	193	229.25	ND	ND	0.86

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
ND - Not detected
RL - Reporting limit
<RL - Not detected
Results compared to Discharge Limit (Daily Maximum)

Qualifiers:
D - The concentration reported is a result of a diluted sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:
10 - Result exceeds Discharge Limit (Daily Maximum)

Appendix A-3
Pump and Treat System Monthly Effluent Analytical Results
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
7/23/2025

Analyte	CAS Number	Discharge Limit (Daily Maximum) (ug/L)	Location	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF
			Sample Name	EFF-011624	EFF_030124	EFF-040224	EFF-041724	EFF-051624	EFF-061424	EFF-071824	EFF-081424	EFF-091724	EFF-102324	EFF-111924	EFF-121624
			Sample Date	01/16/2024	03/01/2024	04/02/2024	04/17/2024	05/16/2024	06/14/2024	07/18/2024	08/14/2024	09/17/2024	10/23/2024	11/19/2024	12/16/2024
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds															
Benzene	71-43-2	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Carbon Disulfide	75-15-0	Monitor	ug/l	<1 U	0.2 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Carbon Tetrachloride	56-23-5	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chlorobenzene	108-90-7	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Chloroform	67-66-3	10	ug/l	<1 U	<1 U	0.41 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Methylene Chloride	75-09-2	10	ug/l	<1 U	0.92 J	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Tetrachloroethene (PCE)	127-18-4	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Toluene	108-88-3	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Trichloroethene (TCE)	79-01-6	10	ug/l	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Total Concentration	--	NS	ug/l	ND	1.12	0.41	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
ND - Not detected
RL - Reporting limit
<RL - Not detected
Results compared to Discharge Limit (Daily Maximum)

Qualifiers:
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

Exceedance Summary:
10 - Result exceeds Discharge Limit (Daily Maximum)

Prepared by: MW
Reviewed by: SB
\\langan.com\data\LAW\data3\130117301\Project Data_Discipline\Environmental\Reports\Annual OM&M Report\2024\July 2025 Revised Annual OMM Report\Appendices\App A and B - Process Monitoring and SPDES Results\Lewistown_GW_20

APPENDIX B

GROUNDWATER TREATMENT SYSTEM
2024 SPDES DATA

Appendix B
Pump and Treat System Quarterly Effluent (SPDES) Analytical Results
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
7/23/2025

Analyte	CAS Number	Discharge Limit* (Daily Maximum) (ug/L)	Location	EFF		EFF		EFF		EFF	
			Sample Name	EFF-040224		EFF-051624		EFF-102324		EFF-111924	
			Sample Date	04/02/2024		05/16/2024		10/23/2024		11/19/2024	
			Unit	Result	lbs/day	Result	lbs/day	Result	lbs/day	Result	lbs/day
Semi-Volatile Organic Compounds											
2,4-Dichlorophenol	120-83-2	1	ug/l	<5 U	-	<5 U	-	<5 U	-	<5 U	-
Hexachloroethane	67-72-1	5	ug/l	<5 U	-	<5 U	-	<5 U	-	<5 U	-
Naphthalene	91-20-3	10	ug/l	<5 U	-	<5 U	-	<5 U	-	<5 U	-
Metals											
Arsenic	7440-38-2	0.036*	ug/l	<15 U	-	<15 U	-	<15 U	-	<15 U	-
Chromium, Total	7440-47-3	0.072*	ug/l	<4 U	-	<4 U	-	<4 U	-	<4 U	-
Copper	7440-50-8	0.1*	ug/l	8.6 J	0.002	<10 U	-	<10 U	-	<10 U	-
Lead	7439-92-1	0.16*	ug/l	<10 U	-	<10 U	-	6.1 J	0.001	<10 U	-
Nickel	7440-02-0	0.072*	ug/l	9.4 J	0.002	<10 U	-	<10 U	-	7.1 J	0.001
Selenium	7782-49-2	0.48*	ug/l	<25 U	-	<25 U	-	<25 U	-	<25 U	-
Zinc	7440-66-6	0.86*	ug/l	21	0.004	2.7 BJ	0.000	<10 U	-	22	0.004
General Chemistry											
Phenolics, Total Recoverable	TOTPHEN	10	ug/l	<10 U	-	8.1 BJ	-	<10 U	-	<10 U	-

Notes:
CAS - Chemical Abstract Service
NS - No standard
ug/l - microgram per liter
RL - Reporting limit
<RL - Not detected
Results compared to Discharge Limit
* - Metals limit is in pounds per day (lbs/day)

Qualifiers:
B - Indicates the analyte is detected in the assiciated blank as well and the sample.
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value

Exceedance Summary:
10 - Result exceeds Discharge Limit (Daily Maximum)

Prepared by: MW
Reviewed by: SB
\\langan.com\data\LAW\data3\130117301\Project Data_Discipline\Environmental\Reports\Annual OM&M Report\2024\July 2025 Revised Annual OMM Report\Appendices\App A and B - Process Monitoring and SPDES Results\Lewistown_GW_20

APPENDIX C

SITE-WIDE INSPECTION FORM

Sitewide Inspection Form
Former Stauffer Management Company Site
Lewiston, NY
Langan Project No: 130117301

Inspection Date: 10/9/2024

Inspected By: Greg Ernst and Max Lifton, Sevenson

Overall Site

Has the site usage changed since the last inspection? Yes: _____ No: **X**

If Yes, please describe the changes: _____

Have the Neighboring Properties uses changed? Yes: _____ No: **X**

If Yes, please describe the changes: _____

Monitoring Wells

Potential Problems	Concern	Corrective Action
Missing Locks	Potential access by unauthorized persons	Replace lock
Missing J-Plugs	Potential well contamination from surface water or rain water	Replace J-plug
Concrete Surface Seal	Damaged seal can allow water infiltration around casing and contamination of groundwater	Contact drilling subcontractor to have surface seal repaired
Damaged Flush-Mount or Stickup Casing	Damaged casing can result in damage to riser	Contact drilling subcontractor to have casing repaired

Monitoring Well	Well Condition (circle one)			Comments
Upper Lockport				
W-11	(Good)	Fair	Needs Repair	
W-16	(Good)	Fair	Needs Repair	
W-17	(Good)	Fair	Needs Repair	Not sampled, Inspection only
W-18R	(Good)	Fair	Needs Repair	
W-19D	(Good)	Fair	Needs Repair	
W-20	(Good)	Fair	Needs Repair	
W-22A	Good	(Fair)	Needs Repair	Bend in PVC
W-23C	Good	(Fair)	Needs Repair	Water in annular space
W-66	(Good)	Fair	Needs Repair	
W-67	(Good)	Fair	Needs Repair	
W-16L	(Good)	Fair	Needs Repair	
W-18L	(Good)	Fair	Needs Repair	

Sitewide Inspection Form
Former Stauffer Management Company Site
Lewiston, NY
Langan Project No: 130117301

Monitoring Well	Well Condition (circle one)			Comments
Lower Lockport				
W-19A	(Good)	Fair	Needs Repair	Missing J-plug
W-23B	(Good)	Fair	Needs Repair	Not sampled, Inspection only
W-48E	(Good)	Fair	Needs Repair	
W-50L	(Good)	Fair	Needs Repair	
W-60L	(Good)	Fair	Needs Repair	Not sampled, Inspection only
W-65	(Good)	Fair	Needs Repair	
W-66L	(Good)	Fair	Needs Repair	
W-67L	(Good)	Fair	Needs Repair	
W-70L	(Good)	Fair	Needs Repair	
Lockport/Rochester				
LR-2	(Good)	Fair	Needs Repair	
LR-16	(Good)	Fair	Needs Repair	
LR-20	(Good)	Fair	Needs Repair	
LR-48	(Good)	Fair	Needs Repair	
LR-49	(Good)	Fair	Needs Repair	
LR-50	(Good)	Fair	Needs Repair	
LR-51	(Good)	Fair	Needs Repair	
LR-61	(Good)	Fair	Needs Repair	
LR-62	(Good)	Fair	Needs Repair	
LR-67	(Good)	Fair	Needs Repair	
LR-69	(Good)	Fair	Needs Repair	Not sampled, Inspection only
OW-5	(Good)	Fair	Needs Repair	Inner well casing rough, difficult to place hydrasleeve
W-19B	(Good)	Fair	Needs Repair	
R-16	(Good)	Fair	Needs Repair	
R-19	Good	(Fair)	Needs Repair	Corrosion on inner well casing
R-48	Good	(Fair)	Needs Repair	Corrosion on inner well casing
R-50	Good	(Fair)	Needs Repair	Corrosion on inner well casing, not sampled, Inspection only
R-60	(Good)	Fair	Needs Repair	
R-61	(Good)	Fair	Needs Repair	
R-66	Good	(Fair)	Needs Repair	Corrosion on inner well casing, not sampled, Inspection only
R-67	(Good)	Fair	Needs Repair	
R-68	Good	(Fair)	Needs Repair	Corrosion on inner well casing
New Wells (2023)				
R-80	(Good)	Fair	Needs Repair	
R-68	(Good)	Fair	Needs Repair	Corrosion on inner well casing

Sitewide Inspection Form
Former Stauffer Management Company Site
Lewiston, NY
Langan Project No: 130117301

Extraction Wells

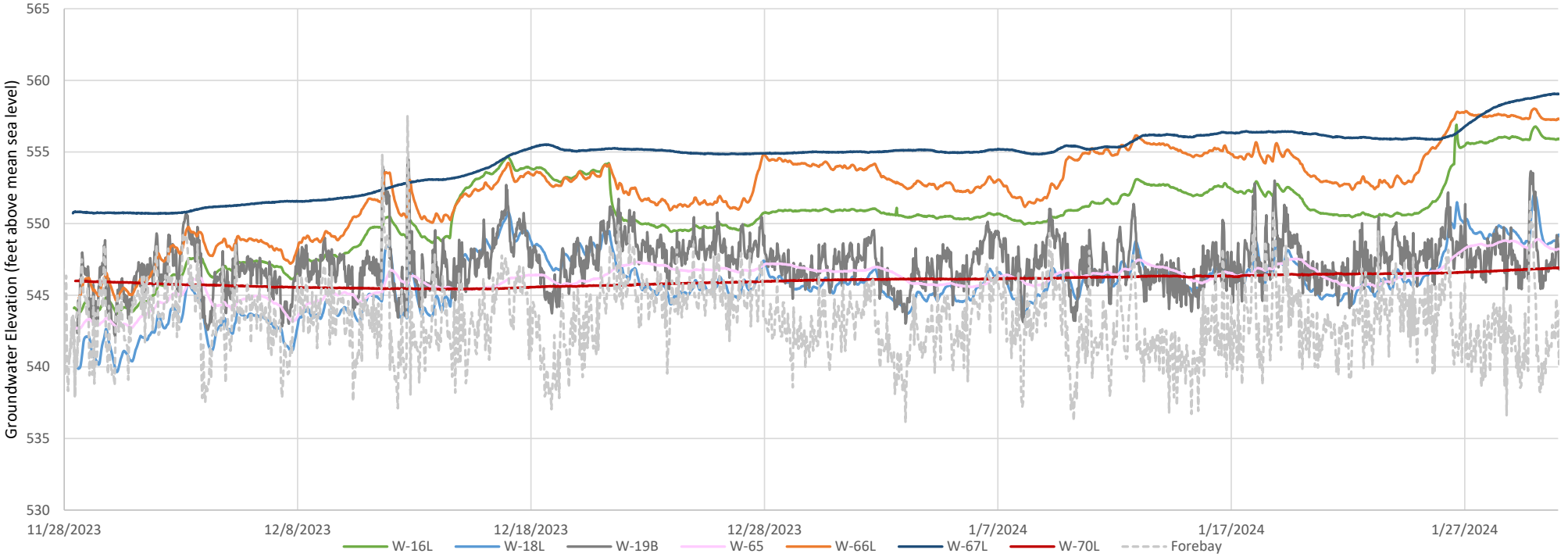
Potential Problems	Concern	Corrective Action
Missing Locks	Potential access by unauthorized persons	Replace lock
Missing J-Plugs	Potential well contamination from surface water or rain water	Replace J-plug
Concrete Surface Seal	Damaged seal can allow water infiltration around casing and contamination of groundwater	Contact drilling subcontractor to have surface seal repaired
Damaged Flush-Mount or Stickup Casing	Damaged casing can result in damage to riser	Contact drilling subcontractor to have casing repaired
Damaged Pumps	Not able to maintain hydraulic containment	Repair or replace pump immediately

Extraction Well	Well Condition (circle one)			Comments
T-4	(Good)	Fair	Needs Repair	
DPA-201	(Good)	Fair	Needs Repair	
DPA-202	(Good)	Fair	Needs Repair	Not sampled, Inspection only
DPA-203	(Good)	Fair	Needs Repair	
EW-1R	(Good)	Fair	Needs Repair	
EW-2	(Good)	Fair	Needs Repair	
EW-3	(Good)	Fair	Needs Repair	
EW-4	(Good)	Fair	Needs Repair	
EW-5	(Good)	Fair	Needs Repair	
EW-6	(Good)	Fair	Needs Repair	
LR-66	(Good)	Fair	Needs Repair	
OW-3	Good	(Fair)	Needs Repair	Pump not functioning, placed hydrasleeve
EW-7	(Good)	Fair	Needs Repair	

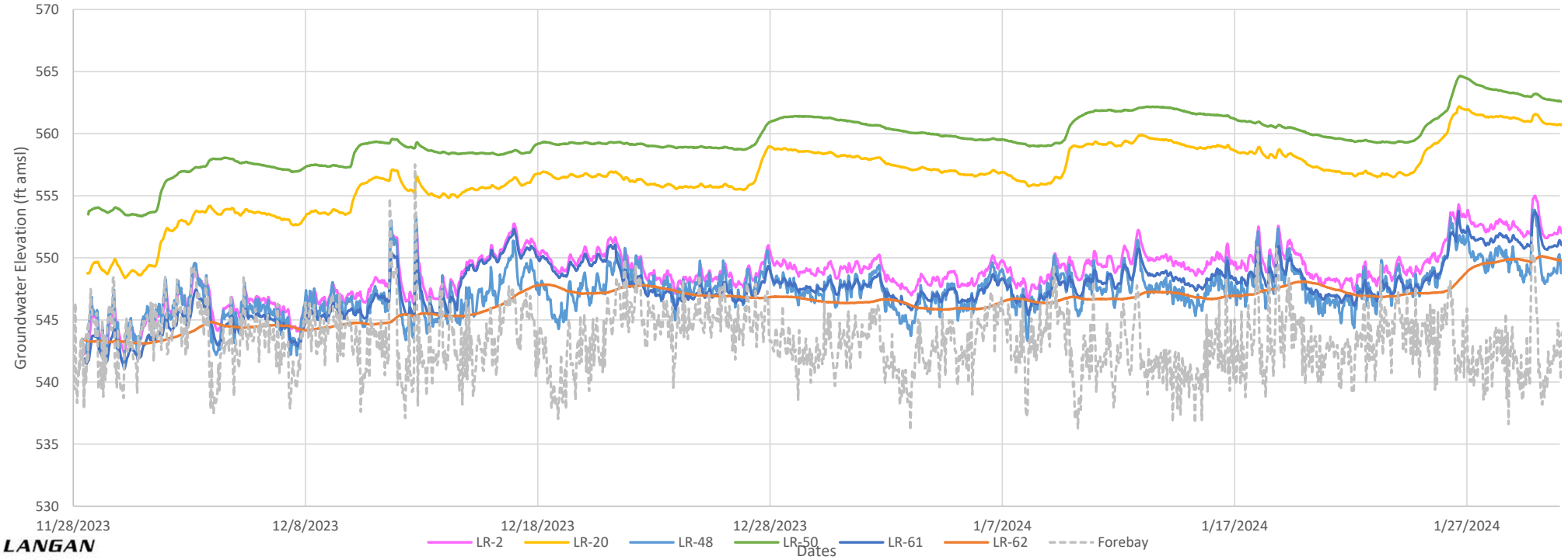
APPENDIX D

CONTINUOUS MONITORING HYDROGRAPHS

Flow Zone 10 Hydrographs: November 2023 - January 2024

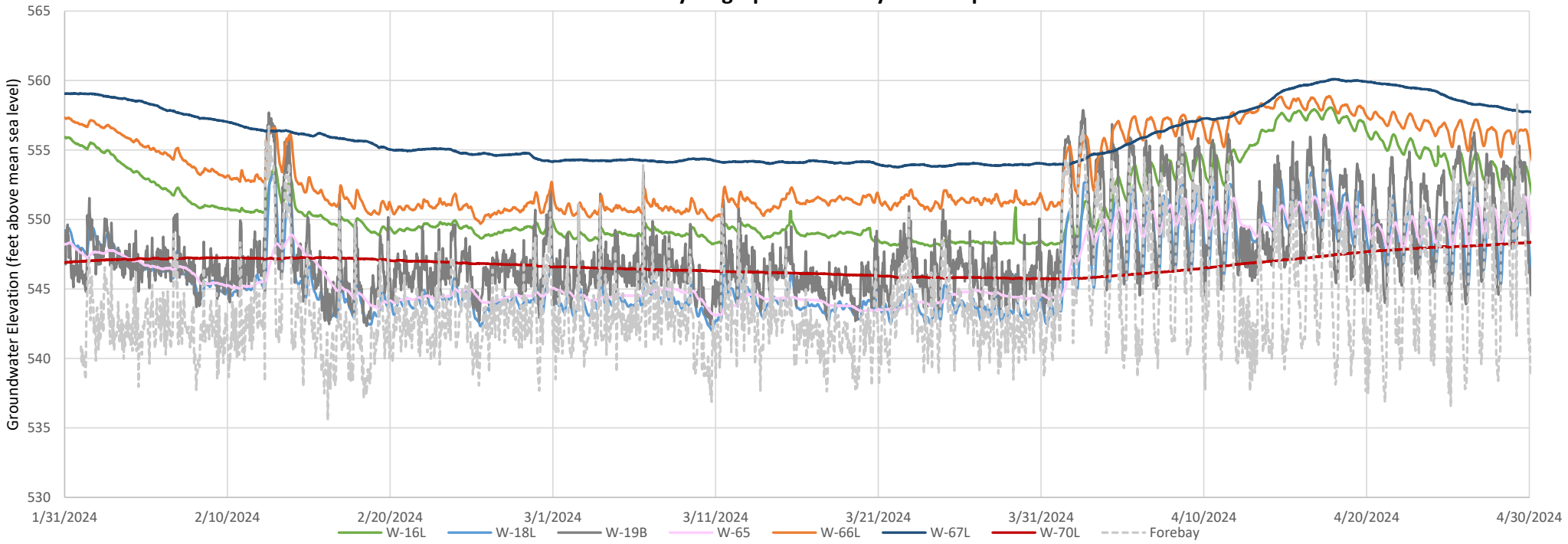


Flow Zone 11 Hydrographs: November 2023 - January 2024

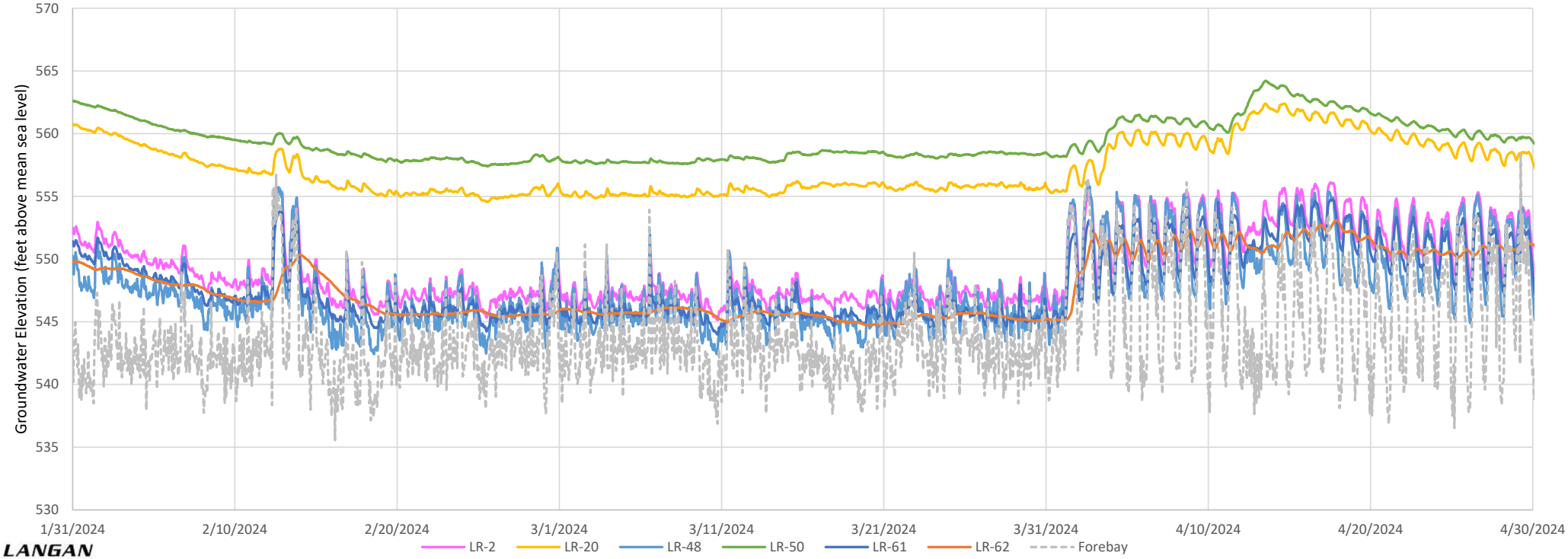


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Flow Zone 10 Hydrographs: February 2024 - April 2024

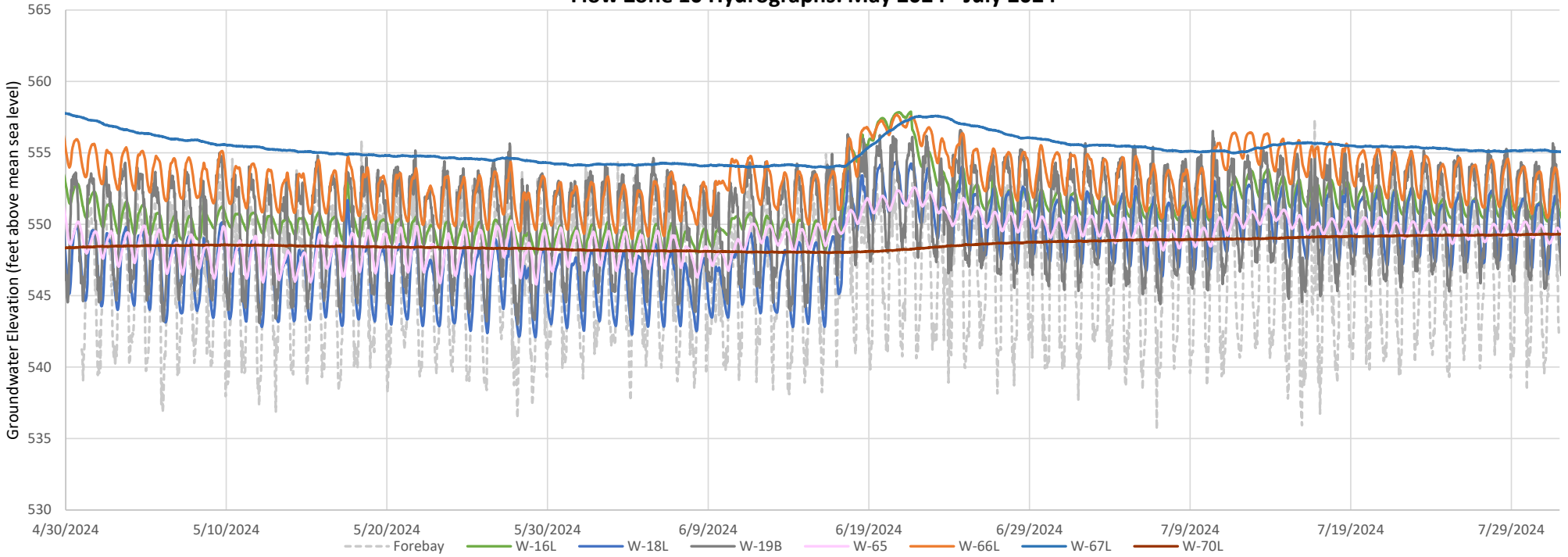


Flow Zone 11 Hydrographs: February 2024 – April 2024

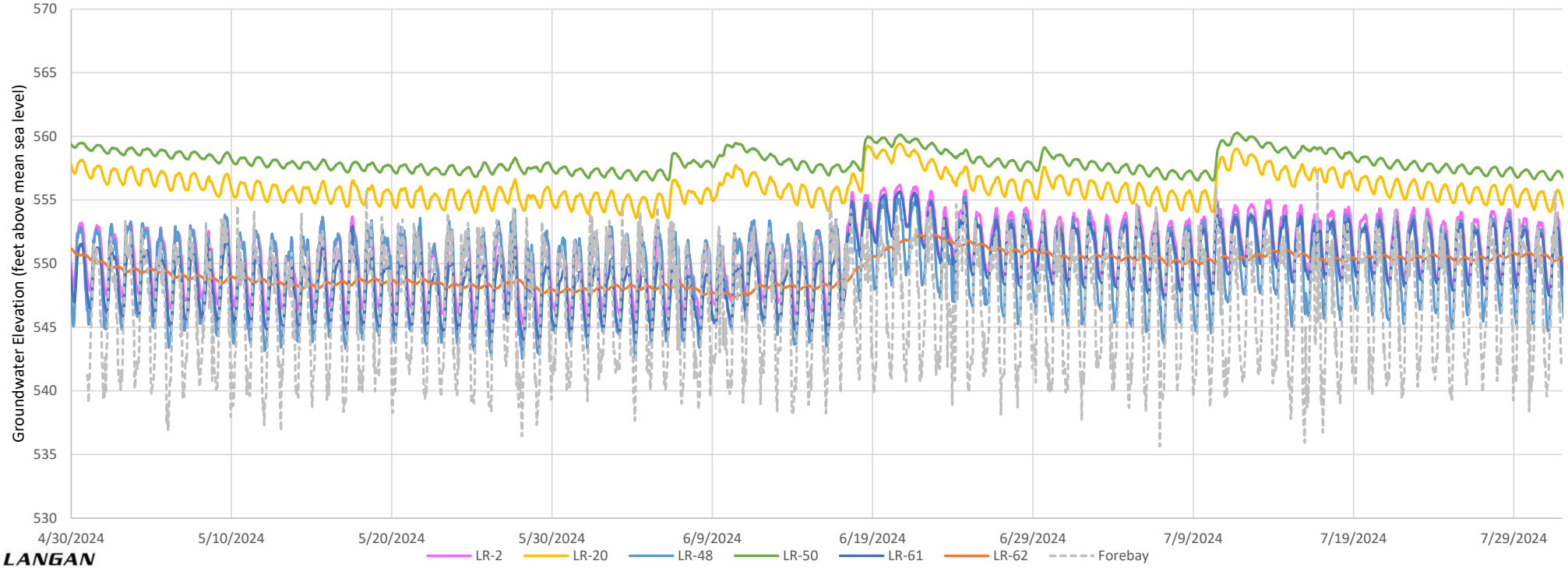


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Flow Zone 10 Hydrographs: May 2024 - July 2024

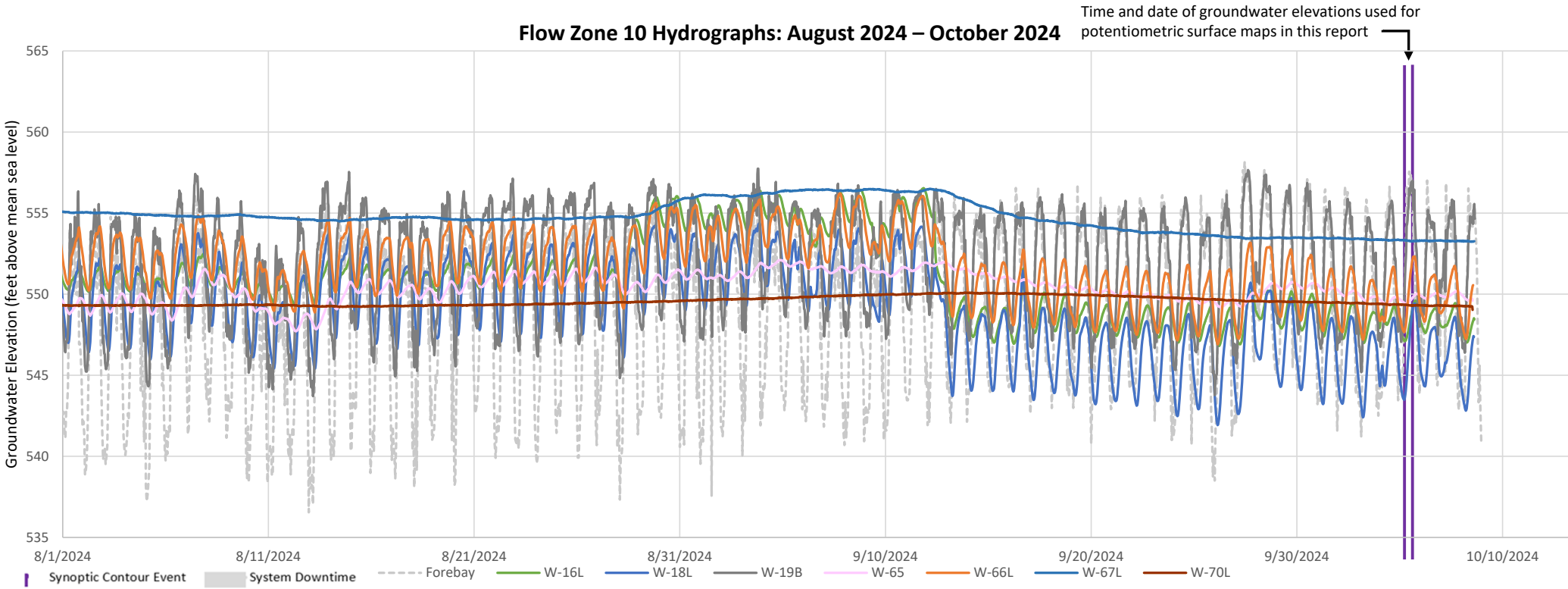


Flow Zone 11 Hydrographs: May 2024 - July 2024

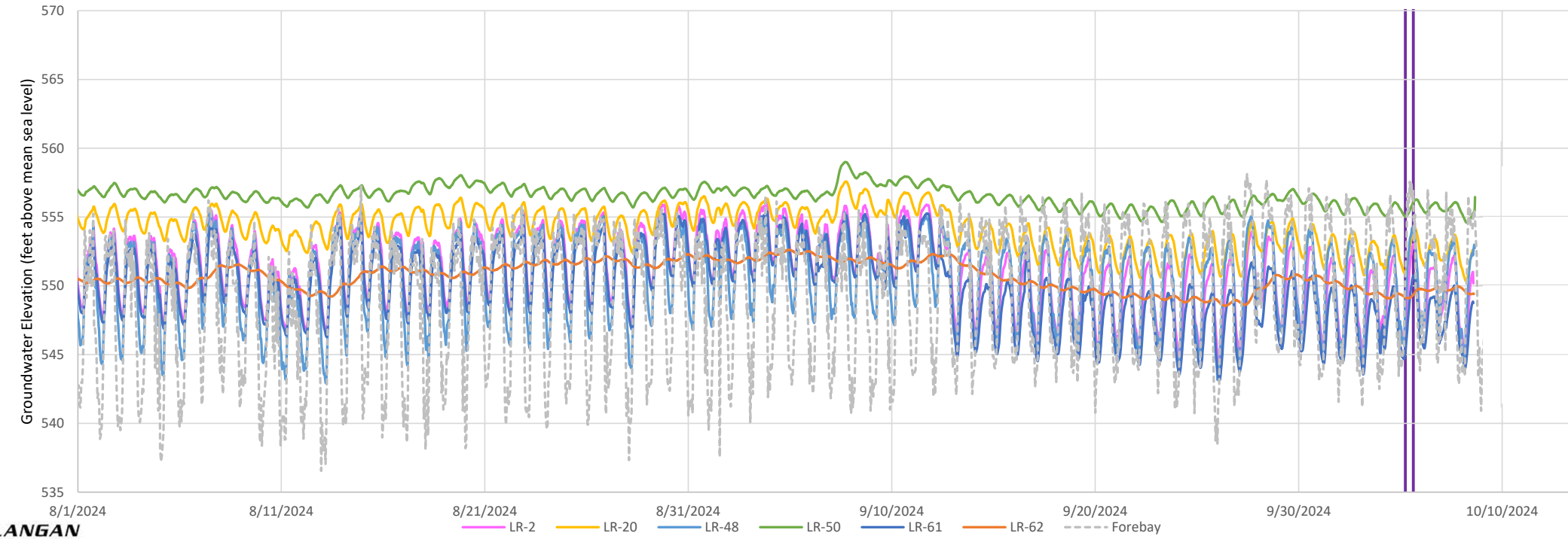


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Flow Zone 10 Hydrographs: August 2024 – October 2024



Flow Zone 11 Hydrographs: August 2024 – October 2024



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APPENDIX E

ANNUAL GROUNDWATER PERFORMANCE SAMPLING FIELD PARAMETERS

Appendix E
HydraSleeve Field Form
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

	TRANSDUCER COLLECTION/HYDRASLEEVE DEPLOYMENT												
Well ID	**Sample Method**	**Duplicates**	**Hydrasleeve Size (inches)**	**Sample Depth (feet bgs)**	**Top Weight**	**Transducer**	**Transducer Deployment Depth (feet bgs)**	**Deployment Staff**	**HydraSleeve Deployment**		**HydraSleeve Deployment Depth To Water (ft below top of casing)**	**Hydrasleeve Deployment PID Reading (ppm)**	**Notes (Transducer Retrievals)**
									Date	**Time**			
DPA-202*	Extraction Pump		NA	NA	NA						NA		
DPA-203*	Extraction Pump		NA	NA	NA						NA		
EW-1R*	Extraction Pump		NA	NA	NA						NA		
EW-2*	Extraction Pump	**DUP / MS/MSD**	NA	NA	NA						NA		
EW-3*	Extraction Pump	**DUP / MS/MSD**	NA	NA	NA						NA		
EW-4*	Extraction Pump		NA	NA	NA						NA		
EW-5*	Extraction Pump		NA	NA	NA						NA		
EW-6*	Extraction Pump		NA	NA	NA						NA		
LR-66*	Extraction Pump		NA	NA	NA						NA		
OW-3*	Extraction Pump		**1.7 x 38**	**103'**				**GE & ML**	**10/9/2024**	**1430**	**68.1**	**6.7**	**Sleeve deployed at 103 feet, the depth of the pump**
LR-2	Transducer Only		NA	NA	NA	**Yes**	**64**	-	10/9/2024	1331	45.10	0.0	0.0 ppm, 45.20' at 1400 on 10/8/24
LR-16	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1249	52.83	0.0	
LR-20	Hydrasleeve		1.7 x 38			**Yes**	**55**	GE & ML	10/9/2024	1113	39.95	0.0	0.2 ppm, 39.53' at 1330 on 10/8/24
LR-48	Hydrasleeve		1.7 x 38			**Yes**	**57**	GE & ML	10/9/2024	1005	35.80	0.0	0.0 ppm, 34.86' at 1530 on 10/8/24
LR-49	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1337	36.80	0.0	
LR-50	Hydrasleeve		1.7 x 38			**Yes**	**50**	GE & ML	10/9/2024	1102	34.30	0.0	0.0 ppm, 33.67 at 1600 on 10/8/24
LR-51	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1024	28.10	0.1	
LR-61	Hydrasleeve		1.7 x 38			**Yes**	**71**	GE & ML	10/9/2024	1313	51.75	0.0	0.1 ppm, 51.84' at 1400 on 10/8/24
LR-62	Hydrasleeve		1.7 x 38			**Yes**	**80**	GE & ML	10/9/2024	1255	57.70	0.0	0.1 ppm, 57.44 at 1430 on 10/8/24
LR-67	Hydrasleeve		1.7 x 38		Yes			GE & ML	10/9/2024	921	57.50	0.0	
IR-80	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1038	127.52	0.1	
OW-5	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	850	55.51	0.0	
R-16	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1241	59.73	15.7	
R-19	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	959	51.68	1.3	
R-48	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1010	54.74	0.1	
R-60	Hydrasleeve	**DUP**	**(2) 1.7 x 38**					GE & ML	10/9/2024	1341	61.51	0.4	
R-61	Gauge Only		NA	NA	NA				10/9/2024	-	57.23	0.0	
R-67	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	912	64.02	19.1	
R-68	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1050	65.79	0.6	
R-80	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1045	65.95	0.0	
W-11	Hydrasleeve		1.7 x 12		Yes			GE & ML	10/9/2024	938	31.63	0.0	
W-16	Hydrasleeve		1.7 x 38		Yes			GE & ML	10/9/2024	1244	25.70	0.1	
W-16L	Hydrasleeve		1.7 x 38			**Yes**	**65**	GE & ML	10/9/2024	1246	53.15	0.0	0.1 ppm, 52.85' at 1500 on 10/8/24
W-18L	Hydrasleeve	**MS/MSD**	**(2) 1.7 x 38**			**Yes**	**71**	GE & ML	10/9/2024	1305	54.26	0.4	0.5 ppm, 54.09' at 1430 on 10/8/24
W-18R	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1310	27.83	0.0	
W-19A	Hydrasleeve		1.7 x 12		Yes			GE & ML	10/9/2024	952	DRY AT 39.20	0.2	
W-19B	Hydrasleeve		1.7 x 38			**Yes**	**67**	GE & ML	10/9/2024	949	42.84	0.0	0.0 ppm, 41.81' at 1530 on 10/8/24
W-19D	Hydrasleeve		1.7 x 38		Yes			GE & ML	10/9/2024	954	22.68	0.0	
W-20	Hydrasleeve		1.7 x 12					GE & ML	10/9/2024	1116	22.06	0.0	
W-22A	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1003	22.66	0.0	
W-23C	Hydrasleeve		1.7 x 12					GE & ML	10/9/2024	1333	18.00	0.0	
W-48E	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1015	36.80	0.0	
W-50L	**Transducer Only**					**Yes**	**37**		10/9/2024	-	36.60	0.0	0.0 ppm, 33.81' at 1600 on 10/8/24
W-65	Hydrasleeve		1.7 x 38			**Yes**	**55**	GE & ML	10/9/2024	1346	36.60	0.0	0.1 ppm, 36.60' at 1300 on 10/8/24
W-66	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	1126	25.76	0.0	
W-66L	Hydrasleeve		1.7 x 38			**Yes**	**60**	GE & ML	10/9/2024	1123	44.65	0.0	0.2 ppm, 44.25' at 1330 on 10/8/24
W-67	Hydrasleeve		1.7 x 38					GE & ML	10/9/2024	923	18.02	0.0	
W-67L	Hydrasleeve		1.7 x 38			**Yes + Baro**	**70**	GE & ML	10/9/2024	919	52.89	0.0	0.1 ppm, 52.86' at 1500 on 10/8/24
W-67L (BARO)	-		-			**BARO**	**5**			-	-	-	0.1 ppm, 52.86' at 1500 on 10/8/24
W-70L	Hydrasleeve		1.7 x 38			**Yes**	**68**	GE & ML	10/9/2024	1329	45.51	0.0	0.1 ppm, 45.54' at 1300 on 10/8/24

Gauge Only
Transducer Well
Hydrasleeve
Extraction Pump

Prepared by: BC
Reviewed by: AH

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Appendix E
HydraSleeve Field Form
Former Stauffer Management Company
Lewiston, New York
Langan Project No.: 130117301
4/4/2025

		HYDRASLEEVE COLLECTION/TRANSDUCER DEPLOYMENT												
Well ID	Sample Method	Hydrasleeve Collection Staff	HydraSleeve Collection		HydraSleeve Collection Depth to Water (ft below top of casing)	Depth to Bottom (ft below top of casing)	Collection PID Reading (ppm)	Temperature (°F)	pH (standard units)	Specific Conductivity (mS/cm)	Redox Potential (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Notes/Well Condition
			Date	Time										
DPA-202*	Extraction Pump		23-Oct	1150	NA	NA	0.0	14.98	7.29	2.84	-141	9.62	61.1	Brownish Water
DPA-203*	Extraction Pump		23-Oct	1145	NA	NA	5.9	15.35	7.30	4.07	-141	9.17	6.5	
EW-1R*	Extraction Pump		23-Oct	1115	NA	NA	59.0	16.81	6.78	10.50	-224	5.57	5.5	
EW-2*	Extraction Pump		23-Oct	1120	NA	NA	0.0	14.91	7.67	1.43	-203	7.26	1.6	
EW-3*	Extraction Pump		23-Oct	1125	NA	NA	1.3	14.62	7.39	2.64	-183	9.81	17.4	
EW-4*	Extraction Pump		23-Oct	1130	NA	NA	0.0	14.63	7.56	1.13	-155	9.64	0.5	
EW-5*	Extraction Pump		23-Oct	1130	NA	NA	8.7	14.25	7.29	4.24	-180	10.27	10.1	
EW-6*	Extraction Pump		23-Oct	1135	NA	NA	2.7	13.89	7.21	2.78	-142	6.29	0.9	
LR-66*	Extraction Pump		23-Oct	1155	NA	NA	0.0	16.88	7.41	3.63	-103	5.57	76.8	reddish brown water
OW-3*	Extraction Pump		23-Oct	1200	68.75	NA	151.0	-	-	-	-	-	-	bag ripped on piping during retrieval, not enough water for Horiba data
LR-2	Transducer Only		24-Oct	**830**	46.83	91.09	0.0	-	-	-	-	-	-	transducer deployed at 0830 on 10-24,
LR-16	Hydrasleeve		24-Oct	1040	53.45	93.92	0.0	11.58	7.39	8.15	-248	6.69	0.0	
LR-20	Hydrasleeve		**24-Oct**	**1330**	39.70	87.00	0.0	12.07	7.69	3.13	15	5.50	0.0	tranducer deployed at 1330 on 10-24,
LR-48	Hydrasleeve		**23-Oct**	**1451**	35.81	68.55	0.0	15.28	7.50	2.51	-93	1.32	2.4	tranducer deployed at 1500 on 10-23,
LR-49	Hydrasleeve		24-Oct	1346	36.44	75.84	0.0	11.60	7.83	3.42	-107	4.47	6.3	
LR-50	Hydrasleeve		**24-Oct**	**941**	36.03	76.40	0.0	11.22	7.44	2.62	-92	4.90	0.0	transducer deployed at 1000 on 10-24, water level 34.81
LR-51	Hydrasleeve		24-Oct	926	28.67	65.84	0.0	11.67	6.78	2.08	21	8.76	0.0	
LR-61	Hydrasleeve		**24-Oct**	**854**	53.05	96.57	0.0	11.90	5.76	2.80	52	11.56	0.0	transducer deployed at 0900 on 10-
LR-62	Hydrasleeve		**24-Oct**	**1530**	58.30	105.70	0.0	12.09	8.29	2.90	-207	6.31	2.5	transducer deployed at 1530 on 10-
LR-67	Hydrasleeve		23-Oct	1435	58.23	103.58	0.0	15.18	7.33	6.02	-168	9.69	8.4	
IR-80	Hydrasleeve		24-Oct	1618	127.61	200+	0.0	11.89	8.78	8.79	-228	4.36	7.8	entire spool unwound, did not find bottom
OW-5	Hydrasleeve		23-Oct	1350	**56.90**	**1033.79**	**0.0**	**14.94**	**7.88**	**4.22**	**-184**	**4.62**	**78.8**	Greyish Water
R-16	Hydrasleeve		24-Oct	1107	60.23	135.07	22.2	11.28	6.24	100.0+	-73	2.65	48.6	maxed out Conductivity on Horiba
R-19	Hydrasleeve		23-Oct	1537	51.40	147.70	0.5	14.39	7.36	10.80	-165	6.53	18.5	Greyish water
R-48	Hydrasleeve		23-Oct	1502	55.45	138.85	0.0	14.95	8.01	1.82	-151	3.61	21.6	
R-60	Hydrasleeve		24-Oct	1553	62.08	114.01	0.0	12.38	7.96	7.40	-125	9.38	0.0	
R-61	Gauge Only	-	24-Oct	859	57.63	152.71	0.1	-	-	-	-	-	-	No Hydrasleeve
R-67	Hydrasleeve		23-Oct	1414	66.05	143.50	0.7	15.47	6.57	86.40	-78	1.33	55.4	
R-68	Hydrasleeve		24-Oct	1006	68.03	122.01	0.1	12.35	6.20	44.60	-174	7.18	0.0	
R-80	Hydrasleeve		24-Oct	1607	66.28	134.18	0.0	12.08	8.08	55.00	-254	5.03	78.8	Greyish Water
W-11	Hydrasleeve		23-Oct	1605	31.83	32.60	0.0	-	-	-	-	-	-	Dry Sleeve, no sample
W-16	Hydrasleeve		24-Oct	1122	26.11	29.12	0.0	-	-	-	-	-	-	Not enough water in sleeve for Horiba
W-16L	Hydrasleeve		**24-Oct**	**1055**	53.55	67.16	0.0	11.29	7.49	3.78	-228	4.58	0.0	transducer deployed at 1100 on 10-
W-18L	Hydrasleeve		**24-Oct**	**1445**	54.00	74.30	0.5	11.91	8.00	0.99	-37	4.66	0.0	transducer deployed at 1500 on 10-24, water level 53.81
W-18R	Hydrasleeve		24-Oct	1515	28.21	31.75	0.0	11.74	8.54	1.82	2	7.80	150.0	Brownish Water
W-19A	Hydrasleeve		23-Oct	1547	dry	39.22	0.0	-	-	-	-	-	-	Dry Sleeve, no sample
W-19B	Hydrasleeve		**23-Oct**	**1529**	46.29	69.58	0.0	15.04	7.59	2.38	-92	3.88	7.2	transducer deployed at 1600 on 10-23, water level 46.29
W-19D	Hydrasleeve		23-Oct	1549	22.75	24.38	0.0	-	-	-	-	-	-	Dry Sleeve, no sample
W-20	Hydrasleeve		24-Oct	1335	23.20	28.75	0.0	12.40	7.85	2.66	-211	5.44	0.0	Greyish Water
W-22A	Hydrasleeve		23-Oct	1612	dry	22.68	0.0	-	-	-	-	-	-	Dry Sleeve, no sample
W-23C	Hydrasleeve		24-Oct	1413	20.10	23.00	0.0	12.73	7.81	0.63	-71	8.16	0.0	
W-48E	Hydrasleeve		23-Oct	1510	36.99	40.25	0.0	-	-	-	-	-	-	Dry Sleeve, no sample
W-50L	Transducer Only		24-Oct	1000	33.75	37.68	0.0	-	-	-	-	-	-	transducer deployed at 1000 on 10-24, water level 33.75
W-65	Hydrasleeve		**24-Oct**	**1400**	36.72	58.75	0.0	12.77	7.74	2.60	-77	5.38	0.0	transducer deployed at 1400 on 10-24, water level 36.72
W-66	Hydrasleeve		24-Oct	1137	26.40	48.25	0.0	11.38	7.81	4.52	-73	4.48	0.0	
W-66L	Hydrasleeve		**24-Oct**	**1200**	44.42	66.45	0.0	-	-	-	-	-	-	transducer deployed at 1200 on 10-24, water level 44.42. Bag ripped during retrieval, not enough water for Horiba data
W-67	Hydrasleeve		23-Oct	1423	18.45	42.16	0.0	16.27	7.57	11.70	-158	2.14	68.3	Greyish Water with black floaties
W-67L	Hydrasleeve		**23-Oct**	**1406**	53.70	72.00	0.0	16.41	7.46	4.65	-54	1.83	5.4	tramsducer deployed at 1430 on 10-23, water level 53.70
W-67L (BARO)	-		**23-Oct**	**1430**	-	-	-	-	-	-	-	-	-	barometer deployed at 1430 on 10-23
W-70L	Hydrasleeve		**24-Oct**	**1425**	46.10	74.26	0.0	11.99	7.24	9.21	-89	5.08	0.0	transducer deployed at 1430 on 10-24, water level 46.10

Gauge Only
Transducer Well
Hydrasleeve
Extraction Pump

APPENDIX F

LABORATORY DATA PACKAGES AND DATA USABILITY SUMMARY REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Matthew Wenrick
Langan Engineering and Environmental Services LLC
989 Lenox Drive
Suite 124
Lawrenceville NJ 08648

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JOB DESCRIPTION

SMC Lewiston - Annual

JOB NUMBER

480-224872-1

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



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Authorized for release by
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716 504-9874

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Job Narrative
480-224872-1

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 11:45 AM. 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 3.1°C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730076 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INF-102324 (480-224872-1), EW-1R-102324 (480-224872-4), EW-3-102324 (480-224872-7), EW-3-102324 (480-224872-7[MS]), EW-3-102324 (480-224872-7[MSD]), EW-3-102324-DUP (480-224872-8), EW-5-102324 (480-224872-10), EW-6-102324 (480-224872-11), EW-7-102324 (480-224872-12), OW-3-102324 (480-224872-15), R-67-102324 (480-224872-18), W-67-102324 (480-224872-19) and LR-67-102324 (480-224872-20). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: R-19-102324 (480-224872-24), R-16-102424 (480-224872-31), W-20-102424 (480-224872-36) and W-70L-102424 (480-224872-40). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: LR-61-102424 (480-224872-25), R-68-102424 (480-224872-28), W-18L-102424 (480-224872-41), W-18L-102424 (480-224872-41[MS]), W-18L-102424 (480-224872-41[MSD]), W-18R-102424 (480-224872-42) and R-80-102424 (480-224872-46). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730274 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: OW-3-102324 (480-224872-15), OW-5-102324 (480-224872-16), LR-67-102324 (480-224872-20), LR-50-102424 (480-224872-27), L-16-102424 (480-224872-29), W-16L-102424 (480-224872-30), W-16-102424 (480-224872-32) and LR-62-102424 (480-224872-43).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-730274 was outside the method criteria for the following analyte(s): Carbon tetrachloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.The associated samples are impacted: CBT-102324 (480-224872-2), DPA-202-102324 (480-224872-13), LR-66-102324 (480-224872-14), LR-61-102424 (480-224872-25) and IR-80-102424 (480-224872-47).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: CBT-102324 (480-224872-2), DPA-202-102324 (480-224872-13), LR-66-102324 (480-224872-14), OW-3-102324 (480-224872-15), OW-5-102324 (480-224872-16), LR-67-102324 (480-224872-20), LR-61-102424 (480-224872-25), IR-80-102424 (480-224872-47), (480-224872-B-14 MS) and (480-224872-B-14 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730274 recovered above the

upper control limit for Carbon tetrachloride. The samples associated with this CCV were detects above the MDL but below the RL for the affected analytes; therefore, the data have been reported. The associated sample is impacted: W-67L-102324 (480-224872-17).

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

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

Job Narrative
480-224872-1

Receipt
The samples were received on 10/25/2024 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-730076 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INF-102324 (480-224872-1), EW-1R-102324 (480-224872-4), EW-3-102324 (480-224872-7), EW-3-102324 (480-224872-7[MS]), EW-3-102324 (480-224872-7[MSD]), EW-3-102324-DUP (480-224872-8), EW-5-102324 (480-224872-10), EW-6-102324 (480-224872-11), EW-7-102324 (480-224872-12), OW-3-102324 (480-224872-15), R-67-102324 (480-224872-18), W-67-102324 (480-224872-19) and LR-67-102324 (480-224872-20). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: R-19-102324 (480-224872-24), R-16-102424 (480-224872-31), W-20-102424 (480-224872-36) and W-70L-102424 (480-224872-40). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: LR-61-102424 (480-224872-25), R-68-102424 (480-224872-28), W-18L-102424 (480-224872-41), W-18L-102424 (480-224872-41[MS]), W-18L-102424 (480-224872-41[MSD]), W-18R-102424 (480-224872-42) and R-80-102424 (480-224872-46). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730274 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: OW-3-102324 (480-224872-15), OW-5-102324 (480-224872-16), LR-67-102324 (480-224872-20), LR-50-102424 (480-224872-27), L-16-102424 (480-224872-29), W-16L-102424 (480-224872-30), W-16-102424 (480-224872-32) and LR-62-102424 (480-224872-43).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-730274 was outside the method criteria for the following analyte(s): Carbon tetrachloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.The associated samples are impacted: CBT-102324 (480-224872-2), DPA-202-102324 (480-224872-13), LR-66-102324 (480-224872-14), LR-61-102424 (480-224872-25) and IR-80-102424 (480-224872-47).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: CBT-102324 (480-224872-2), DPA-202-102324 (480-224872-13), LR-66-102324 (480-224872-14), OW-3-102324 (480-224872-15), OW-5-102324 (480-224872-16), LR-67-102324 (480-224872-20), LR-61-102424 (480-224872-25), IR-80-102424 (480-224872-47), (480-224872-B-14 MS) and (480-224872-B-14 MSD). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-730274 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were detects above the MDL but below the RL for the affected analytes; therefore, the data have been reported. The associated sample is impacted:

W-67L-102324 (480-224872-17).

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010D: The linear range check (LRC) standard recovery associated with 480-730400 is outside the acceptance criteria
for the following analytes: zinc. The concentration of these analyte(s)
in the sample(s) are below the highest standard of the calibration curve; therefore, the data have been reported.

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

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

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

Sample Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-224872-1	INF-102324	Water	10/23/24 10:55	10/25/24 11:45
480-224872-2	CBT-102324	Water	10/23/24 11:00	10/25/24 11:45
480-224872-3	EFF-102324	Water	10/23/24 11:05	10/25/24 11:45
480-224872-4	EW-1R-102324	Water	10/23/24 11:15	10/25/24 11:45
480-224872-5	EW-2-102324	Water	10/23/24 11:20	10/25/24 11:45
480-224872-6	EW-2-102324-DUP	Water	10/23/24 11:20	10/25/24 11:45
480-224872-7	EW-3-102324	Water	10/23/24 11:25	10/25/24 11:45
480-224872-8	EW-3-102324-DUP	Water	10/23/24 11:25	10/25/24 11:45
480-224872-9	EW-4-102324	Water	10/23/24 11:30	10/25/24 11:45
480-224872-10	EW-5-102324	Water	10/23/24 11:30	10/25/24 11:45
480-224872-11	EW-6-102324	Water	10/23/24 11:35	10/25/24 11:45
480-224872-12	EW-7-102324	Water	10/23/24 11:45	10/25/24 11:45
480-224872-13	DPA-202-102324	Water	10/23/24 11:50	10/25/24 11:45
480-224872-14	LR-66-102324	Water	10/23/24 11:55	10/25/24 11:45
480-224872-15	OW-3-102324	Water	10/23/24 12:00	10/25/24 11:45
480-224872-16	OW-5-102324	Water	10/23/24 13:50	10/25/24 11:45
480-224872-17	W-67L-102324	Water	10/23/24 14:06	10/25/24 11:45
480-224872-18	R-67-102324	Water	10/23/24 14:14	10/25/24 11:45
480-224872-19	W-67-102324	Water	10/23/24 14:23	10/25/24 11:45
480-224872-20	LR-67-102324	Water	10/23/24 14:35	10/25/24 11:45
480-224872-21	LR-48-102324	Water	10/23/24 14:51	10/25/24 11:45
480-224872-22	R-48-102324	Water	10/23/24 15:02	10/25/24 11:45
480-224872-23	W-19B-102324	Water	10/23/24 15:29	10/25/24 11:45
480-224872-24	R-19-102324	Water	10/23/24 15:37	10/25/24 11:45
480-224872-25	LR-61-102424	Water	10/24/24 08:54	10/25/24 11:45
480-224872-26	LR-51-102424	Water	10/24/24 09:26	10/25/24 11:45
480-224872-27	LR-50-102424	Water	10/24/24 09:41	10/25/24 11:45
480-224872-28	R-68-102424	Water	10/24/24 10:06	10/25/24 11:45
480-224872-29	L-16-102424	Water	10/24/24 10:40	10/25/24 11:45
480-224872-30	W-16L-102424	Water	10/24/24 10:55	10/25/24 11:45
480-224872-31	R-16-102424	Water	10/24/24 11:07	10/25/24 11:45
480-224872-32	W-16-102424	Water	10/24/24 11:22	10/25/24 11:45
480-224872-33	W-66-102424	Water	10/24/24 11:37	10/25/24 11:45
480-224872-34	W-66L-102424	Water	10/24/24 12:00	10/25/24 11:45
480-224872-35	LR-20-102424	Water	10/24/24 13:30	10/25/24 11:45
480-224872-36	W-20-102424	Water	10/24/24 13:35	10/25/24 11:45
480-224872-37	LR-49-102424	Water	10/24/24 13:46	10/25/24 11:45
480-224872-38	W-65-102424	Water	10/24/24 14:00	10/25/24 11:45
480-224872-39	W-23C-102424	Water	10/24/24 14:13	10/25/24 11:45
480-224872-40	W-70L-102424	Water	10/24/24 14:25	10/25/24 11:45
480-224872-41	W-18L-102424	Water	10/24/24 14:45	10/25/24 11:45
480-224872-42	W-18R-102424	Water	10/24/24 15:15	10/25/24 11:45
480-224872-43	LR-62-102424	Water	10/24/24 15:30	10/25/24 11:45
480-224872-44	R-60-102424	Water	10/24/24 15:53	10/25/24 11:45
480-224872-45	R-60-102424-DUP	Water	10/24/24 15:53	10/25/24 11:45
480-224872-46	R-80-102424	Water	10/24/24 16:07	10/25/24 11:45
480-224872-47	IR-80-102424	Water	10/24/24 16:18	10/25/24 11:45
480-224872-48	Trip Blank	Water	10/22/24 00:00	10/25/24 11:45

Detection Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Client Sample ID: INF-102324 — Lab Sample ID: 480-224872-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1800		40	7.6	ug/L	40		8260C	Total/NA
Carbon tetrachloride	2600		40	11	ug/L	40		8260C	Total/NA
Chloroform	1200		40	14	ug/L	40		8260C	Total/NA
Methylene Chloride	100		40	18	ug/L	40		8260C	Total/NA
Tetrachloroethene	46		40	14	ug/L	40		8260C	Total/NA
Trichloroethene	78		40	18	ug/L	40		8260C	Total/NA

Client Sample ID: CBT-102324 — Lab Sample ID: 480-224872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	30		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	140	E	1.0	0.34	ug/L	1		8260C	Total/NA
Methylene Chloride	23		1.0	0.44	ug/L	1		8260C	Total/NA
Carbon tetrachloride - DL	28	D	2.0	0.54	ug/L	2		8260C	Total/NA
Chloroform - DL	140	D	2.0	0.68	ug/L	2		8260C	Total/NA
Methylene Chloride - DL	24	D	2.0	0.88	ug/L	2		8260C	Total/NA

Client Sample ID: EFF-102324 — Lab Sample ID: 480-224872-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0061	J	0.010	0.0030	mg/L	1		6010D	Total Recoverable

Client Sample ID: EW-1R-102324 — Lab Sample ID: 480-224872-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	75000		1000	190	ug/L	1000		8260C	Total/NA
Carbon tetrachloride	5900		1000	270	ug/L	1000		8260C	Total/NA
Chloroform	4300		1000	340	ug/L	1000		8260C	Total/NA

Client Sample ID: EW-2-102324 — Lab Sample ID: 480-224872-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	11		1.0	0.19	ug/L	1		8260C	Total/NA
Carbon tetrachloride	49	F1	1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	38		1.0	0.34	ug/L	1		8260C	Total/NA
Methylene Chloride	2.8		1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.5	F1	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: EW-2-102324-DUP — Lab Sample ID: 480-224872-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	1.5		1.0	0.19	ug/L	1		8260C	Total/NA
Carbon tetrachloride	52		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	41		1.0	0.34	ug/L	1		8260C	Total/NA
Methylene Chloride	3.0		1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.2		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: EW-3-102324 — Lab Sample ID: 480-224872-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	200		50	9.5	ug/L	50		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EW-3-102324 (Continued)
Lab Sample ID: 480-224872-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	1700	F1	50	14	ug/L	50		8260C	Total/NA
Chloroform	820		50	17	ug/L	50		8260C	Total/NA
Methylene Chloride	43	J	50	22	ug/L	50		8260C	Total/NA
Tetrachloroethene	24	J	50	18	ug/L	50		8260C	Total/NA
Trichloroethene	75		50	23	ug/L	50		8260C	Total/NA

Client Sample ID: EW-3-102324-DUP
Lab Sample ID: 480-224872-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	150		50	9.5	ug/L	50		8260C	Total/NA
Carbon tetrachloride	1700		50	14	ug/L	50		8260C	Total/NA
Chloroform	820		50	17	ug/L	50		8260C	Total/NA
Methylene Chloride	51		50	22	ug/L	50		8260C	Total/NA
Tetrachloroethene	20	J	50	18	ug/L	50		8260C	Total/NA
Trichloroethene	63		50	23	ug/L	50		8260C	Total/NA

Client Sample ID: EW-4-102324
Lab Sample ID: 480-224872-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	21		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	23		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	5.6		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: EW-5-102324
Lab Sample ID: 480-224872-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	290		4.0	1.1	ug/L	4		8260C	Total/NA
Chloroform	160		4.0	1.4	ug/L	4		8260C	Total/NA
Tetrachloroethene	62		4.0	1.4	ug/L	4		8260C	Total/NA
Trichloroethene	81		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: EW-6-102324
Lab Sample ID: 480-224872-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	140	J	200	38	ug/L	200		8260C	Total/NA
Carbon tetrachloride	8500		200	54	ug/L	200		8260C	Total/NA
Chloroform	3400		200	68	ug/L	200		8260C	Total/NA
Tetrachloroethene	200		200	72	ug/L	200		8260C	Total/NA

Client Sample ID: EW-7-102324
Lab Sample ID: 480-224872-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	6800		100	27	ug/L	100		8260C	Total/NA
Chloroform	630		100	34	ug/L	100		8260C	Total/NA
Tetrachloroethene	41	J	100	36	ug/L	100		8260C	Total/NA

Client Sample ID: DPA-202-102324
Lab Sample ID: 480-224872-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	11000		200	54	ug/L	200		8260C	Total/NA
Chloroform	1800		200	68	ug/L	200		8260C	Total/NA
Tetrachloroethene	340		200	72	ug/L	200		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Client Sample ID: LR-66-102324
Lab Sample ID: 480-224872-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	2000	F1	40	11	ug/L	40		8260C	Total/NA
Chloroform	330		40	14	ug/L	40		8260C	Total/NA
Tetrachloroethene	89		40	14	ug/L	40		8260C	Total/NA

Client Sample ID: OW-3-102324
Lab Sample ID: 480-224872-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	97	J	100	41	ug/L	100		8260C	Total/NA
Carbon disulfide	100000	E	100	19	ug/L	100		8260C	Total/NA
Carbon tetrachloride	610		100	27	ug/L	100		8260C	Total/NA
Chloroform	1100		100	34	ug/L	100		8260C	Total/NA
Tetrachloroethene	140		100	36	ug/L	100		8260C	Total/NA
Toluene	130		100	51	ug/L	100		8260C	Total/NA
Carbon disulfide - DL	120000	D	2000	380	ug/L	2000		8260C	Total/NA
Chloroform - DL	1700	J D	2000	680	ug/L	2000		8260C	Total/NA

Client Sample ID: OW-5-102324
Lab Sample ID: 480-224872-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	8500		200	38	ug/L	200		8260C	Total/NA

Client Sample ID: W-67L-102324
Lab Sample ID: 480-224872-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	10		1.0	0.19	ug/L	1		8260C	Total/NA
Carbon tetrachloride	0.88	J	1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	6.7		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	5.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: R-67-102324
Lab Sample ID: 480-224872-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	60000		1000	190	ug/L	1000		8260C	Total/NA

Client Sample ID: W-67-102324
Lab Sample ID: 480-224872-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	1300		40	11	ug/L	40		8260C	Total/NA
Chloroform	1300		40	14	ug/L	40		8260C	Total/NA
Methylene Chloride	46		40	18	ug/L	40		8260C	Total/NA
Tetrachloroethene	79		40	14	ug/L	40		8260C	Total/NA
Trichloroethene	210		40	18	ug/L	40		8260C	Total/NA

Client Sample ID: LR-67-102324
Lab Sample ID: 480-224872-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	41000	E	200	38	ug/L	200		8260C	Total/NA
Chloroform	220		200	68	ug/L	200		8260C	Total/NA
Tetrachloroethene	850		200	72	ug/L	200		8260C	Total/NA
Trichloroethene	2300		200	92	ug/L	200		8260C	Total/NA
Carbon disulfide - DL	36000	D	800	150	ug/L	800		8260C	Total/NA
Chloroform - DL	320	J D	800	270	ug/L	800		8260C	Total/NA
Tetrachloroethene - DL	690	J D	800	290	ug/L	800		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LR-67-102324 (Continued)
Lab Sample ID: 480-224872-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene - DL	1900	D	800	370	ug/L	800		8260C	Total/NA

Client Sample ID: LR-48-102324
Lab Sample ID: 480-224872-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	9.6		1.0	0.27	ug/L	1		8260C	Total/NA
Chlorobenzene	14		1.0	0.75	ug/L	1		8260C	Total/NA
Chloroform	3.9		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	3.5		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: R-48-102324
Lab Sample ID: 480-224872-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: W-19B-102324
Lab Sample ID: 480-224872-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.98	J	1.0	0.41	ug/L	1		8260C	Total/NA
Carbon tetrachloride	21		1.0	0.27	ug/L	1		8260C	Total/NA
Chlorobenzene	59		1.0	0.75	ug/L	1		8260C	Total/NA
Chloroform	3.4		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.71	J	1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	0.71	J	1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	6.3		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: R-19-102324
Lab Sample ID: 480-224872-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	8.1		2.0	0.82	ug/L	2		8260C	Total/NA
Carbon tetrachloride	21		2.0	0.54	ug/L	2		8260C	Total/NA
Chloroform	18		2.0	0.68	ug/L	2		8260C	Total/NA
Methylene Chloride	17		2.0	0.88	ug/L	2		8260C	Total/NA
Tetrachloroethene	1.1	J	2.0	0.72	ug/L	2		8260C	Total/NA

Client Sample ID: LR-61-102424
Lab Sample ID: 480-224872-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	450		20	3.8	ug/L	20		8260C	Total/NA
Carbon tetrachloride	4200	E	20	5.4	ug/L	20		8260C	Total/NA
Chlorobenzene	24		20	15	ug/L	20		8260C	Total/NA
Chloroform	2600	E	20	6.8	ug/L	20		8260C	Total/NA
Methylene Chloride	170		20	8.8	ug/L	20		8260C	Total/NA
Tetrachloroethene	61		20	7.2	ug/L	20		8260C	Total/NA
Trichloroethene	59		20	9.2	ug/L	20		8260C	Total/NA
Carbon disulfide - DL	430	D	80	15	ug/L	80		8260C	Total/NA
Carbon tetrachloride - DL	4000	D	80	22	ug/L	80		8260C	Total/NA
Chloroform - DL	2500	D	80	27	ug/L	80		8260C	Total/NA
Methylene Chloride - DL	120	D	80	35	ug/L	80		8260C	Total/NA
Tetrachloroethene - DL	52	J D	80	29	ug/L	80		8260C	Total/NA
Trichloroethene - DL	54	J D	80	37	ug/L	80		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Client Sample ID: LR-51-102424 — Lab Sample ID: 480-224872-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.7		1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: LR-50-102424 — Lab Sample ID: 480-224872-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	0.89	J	1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: R-68-102424 — Lab Sample ID: 480-224872-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	580000		10000	1900	ug/L	10000		8260C	Total/NA
Carbon tetrachloride	71000		10000	2700	ug/L	10000		8260C	Total/NA
Chloroform	86000		10000	3400	ug/L	10000		8260C	Total/NA

Client Sample ID: L-16-102424 — Lab Sample ID: 480-224872-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	14		1.0	0.19	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.38	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	2.9		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: W-16L-102424 — Lab Sample ID: 480-224872-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	8.6		1.0	0.19	ug/L	1		8260C	Total/NA

Client Sample ID: R-16-102424 — Lab Sample ID: 480-224872-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	140		20	8.2	ug/L	20		8260C	Total/NA
Toluene	50		20	10	ug/L	20		8260C	Total/NA

Client Sample ID: W-16-102424 — Lab Sample ID: 480-224872-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.4		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	23		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	17		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: W-66-102424 — Lab Sample ID: 480-224872-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	25		1.0	0.27	ug/L	1		8260C	Total/NA
Chloroform	12		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	24		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: W-66L-102424 — Lab Sample ID: 480-224872-34

No Detections.

Client Sample ID: LR-20-102424 — Lab Sample ID: 480-224872-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.88	J	1.0	0.19	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Client Sample ID: W-20-102424
Lab Sample ID: 480-224872-36

No Detections.

Client Sample ID: LR-49-102424
Lab Sample ID: 480-224872-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.1		1.0	0.75	ug/L	1		8260C	Total/NA

Client Sample ID: W-65-102424
Lab Sample ID: 480-224872-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.77	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.91	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: W-23C-102424
Lab Sample ID: 480-224872-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5		1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.6		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.61	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: W-70L-102424
Lab Sample ID: 480-224872-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		2.0	0.82	ug/L	2		8260C	Total/NA
Chlorobenzene	28		2.0	1.5	ug/L	2		8260C	Total/NA

Client Sample ID: W-18L-102424
Lab Sample ID: 480-224872-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	940		40	11	ug/L	40		8260C	Total/NA
Chloroform	1000		40	14	ug/L	40		8260C	Total/NA
Tetrachloroethene	87		40	14	ug/L	40		8260C	Total/NA
Trichloroethene	65		40	18	ug/L	40		8260C	Total/NA

Client Sample ID: W-18R-102424
Lab Sample ID: 480-224872-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	36000		800	220	ug/L	800		8260C	Total/NA
Chloroform	11000		800	270	ug/L	800		8260C	Total/NA
Tetrachloroethene	350	J	800	290	ug/L	800		8260C	Total/NA

Client Sample ID: LR-62-102424
Lab Sample ID: 480-224872-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.95	J	1.0	0.41	ug/L	1		8260C	Total/NA
Trichloroethene	0.78	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: R-60-102424
Lab Sample ID: 480-224872-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.9		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: R-60-102424-DUP
Lab Sample ID: 480-224872-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.5		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.74	J	1.0	0.19	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Client Sample ID: R-80-102424
Lab Sample ID: 480-224872-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	160		100	41	ug/L	100		8260C	Total/NA
Carbon disulfide	5000		100	19	ug/L	100		8260C	Total/NA
Chloroform	330		100	34	ug/L	100		8260C	Total/NA
Toluene	59	J	100	51	ug/L	100		8260C	Total/NA

Client Sample ID: IR-80-102424
Lab Sample ID: 480-224872-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.3		4.0	1.6	ug/L	4		8260C	Total/NA
Carbon disulfide	170		4.0	0.76	ug/L	4		8260C	Total/NA
Carbon tetrachloride	16		4.0	1.1	ug/L	4		8260C	Total/NA
Chloroform	170		4.0	1.4	ug/L	4		8260C	Total/NA
Methylene Chloride	28		4.0	1.8	ug/L	4		8260C	Total/NA
Tetrachloroethene	2.9	J	4.0	1.4	ug/L	4		8260C	Total/NA
Toluene	6.2		4.0	2.0	ug/L	4		8260C	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 480-224872-48

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	EET BUF
6010D	Metals (ICP)	SW846	EET BUF
420.4	Phenolics, Total Recoverable	EPA	EET BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUF
5030C	Purge and Trap	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: INF-102324
Lab Sample ID: 480-224872-1

Date Collected: 10/23/24 10:55
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16	U	40	16	ug/L			10/28/24 13:47	40
Carbon disulfide	**1800**		40	7.6	ug/L			10/28/24 13:47	40
Carbon tetrachloride	**2600**		40	11	ug/L			10/28/24 13:47	40
Chlorobenzene	30	U	40	30	ug/L			10/28/24 13:47	40
Chloroform	**1200**		40	14	ug/L			10/28/24 13:47	40
Methylene Chloride	**100**		40	18	ug/L			10/28/24 13:47	40
Tetrachloroethene	**46**		40	14	ug/L			10/28/24 13:47	40
Toluene	20	U	40	20	ug/L			10/28/24 13:47	40
Trichloroethene	**78**		40	18	ug/L			10/28/24 13:47	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/28/24 13:47*	*40*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/28/24 13:47*	*40*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/24 13:47*	*40*

Client Sample ID: CBT-102324
Lab Sample ID: 480-224872-2

Date Collected: 10/23/24 11:00
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 14:08	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 14:08	1
Carbon tetrachloride	**30**		1.0	0.27	ug/L			10/28/24 14:08	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 14:08	1
Chloroform	**140**	**E**	1.0	0.34	ug/L			10/28/24 14:08	1
Methylene Chloride	**23**		1.0	0.44	ug/L			10/28/24 14:08	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/28/24 14:08	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 14:08	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/28/24 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/28/24 14:08*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/28/24 14:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/24 14:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.82	U	2.0	0.82	ug/L			10/29/24 17:30	2
Carbon disulfide	0.38	U	2.0	0.38	ug/L			10/29/24 17:30	2
Carbon tetrachloride	**28**	**D**	2.0	0.54	ug/L			10/29/24 17:30	2
Chlorobenzene	1.5	U	2.0	1.5	ug/L			10/29/24 17:30	2
Chloroform	**140**	**D**	2.0	0.68	ug/L			10/29/24 17:30	2
Methylene Chloride	**24**	**D**	2.0	0.88	ug/L			10/29/24 17:30	2
Tetrachloroethene	0.72	U	2.0	0.72	ug/L			10/29/24 17:30	2
Toluene	1.0	U	2.0	1.0	ug/L			10/29/24 17:30	2
Trichloroethene	0.92	U	2.0	0.92	ug/L			10/29/24 17:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*	*D*	*77 - 120*		*10/29/24 17:30*	*2*
Dibromofluoromethane (Surr)	*109*	*D*	*75 - 123*		*10/29/24 17:30*	*2*

Client Sample ID: CBT-102324
Lab Sample ID: 480-224872-2
Date Collected: 10/23/24 11:00
Matrix: Water
Date Received: 10/25/24 11:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*	*D*	*80 - 120*		*10/29/24 17:30*	*2*

Client Sample ID: EFF-102324
Lab Sample ID: 480-224872-3
Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 14:30	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 14:30	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/28/24 14:30	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 14:30	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/28/24 14:30	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 14:30	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/28/24 14:30	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 14:30	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/28/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/28/24 14:30*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*10/28/24 14:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/24 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	0.51	U	5.0	0.51	ug/L		10/29/24 09:26	10/30/24 14:24	1
Hexachloroethane	0.59	U	5.0	0.59	ug/L		10/29/24 09:26	10/30/24 14:24	1
Naphthalene	0.76	U	5.0	0.76	ug/L		10/29/24 09:26	10/30/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*25 - 144*	*10/29/24 09:26*	*10/30/24 14:24*	*1*
2-Fluorobiphenyl	*91*		*53 - 126*	*10/29/24 09:26*	*10/30/24 14:24*	*1*
2-Fluorophenol (Surr)	*66*		*24 - 120*	*10/29/24 09:26*	*10/30/24 14:24*	*1*
Nitrobenzene-d5 (Surr)	*102*		*29 - 129*	*10/29/24 09:26*	*10/30/24 14:24*	*1*
Phenol-d5 (Surr)	*50*		*10 - 120*	*10/29/24 09:26*	*10/30/24 14:24*	*1*
p-Terphenyl-d14 (Surr)	*97*		*33 - 132*	*10/29/24 09:26*	*10/30/24 14:24*	*1*

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0056	U	0.015	0.0056	mg/L		10/29/24 08:45	10/29/24 17:01	1
Chromium	0.0010	U	0.0040	0.0010	mg/L		10/29/24 08:45	10/29/24 17:01	1
Copper	0.0016	U	0.010	0.0016	mg/L		10/29/24 08:45	10/29/24 17:01	1
Nickel	0.0013	U	0.010	0.0013	mg/L		10/29/24 08:45	10/29/24 17:01	1
Lead	**0.0061**	**J**	0.010	0.0030	mg/L		10/29/24 08:45	10/29/24 17:01	1
Selenium	0.0087	U	0.025	0.0087	mg/L		10/29/24 08:45	10/29/24 17:01	1
Zinc	0.0015	U ^5- L	0.010	0.0015	mg/L		10/29/24 08:45	10/30/24 15:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable (EPA 420.4)	0.0035	U	0.010	0.0035	mg/L			10/31/24 10:31	1

Client Sample ID: EW-1R-102324
Lab Sample ID: 480-224872-4

Date Collected: 10/23/24 11:15
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	410	U	1000	410	ug/L			10/28/24 14:52	1000
Carbon disulfide	**75000**		1000	190	ug/L			10/28/24 14:52	1000
Carbon tetrachloride	**5900**		1000	270	ug/L			10/28/24 14:52	1000
Chlorobenzene	750	U	1000	750	ug/L			10/28/24 14:52	1000
Chloroform	**4300**		1000	340	ug/L			10/28/24 14:52	1000
Methylene Chloride	440	U	1000	440	ug/L			10/28/24 14:52	1000
Tetrachloroethene	360	U	1000	360	ug/L			10/28/24 14:52	1000
Toluene	510	U	1000	510	ug/L			10/28/24 14:52	1000
Trichloroethene	460	U	1000	460	ug/L			10/28/24 14:52	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/28/24 14:52*	*1000*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/28/24 14:52*	*1000*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/28/24 14:52*	*1000*

Client Sample ID: EW-2-102324
Lab Sample ID: 480-224872-5

Date Collected: 10/23/24 11:20
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 15:16	1
Carbon disulfide	**11**		1.0	0.19	ug/L			10/28/24 15:16	1
Carbon tetrachloride	**49**	**F1**	1.0	0.27	ug/L			10/28/24 15:16	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 15:16	1
Chloroform	**38**		1.0	0.34	ug/L			10/28/24 15:16	1
Methylene Chloride	**2.8**		1.0	0.44	ug/L			10/28/24 15:16	1
Tetrachloroethene	**3.5**	**F1**	1.0	0.36	ug/L			10/28/24 15:16	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 15:16	1
Trichloroethene	**2.0**		1.0	0.46	ug/L			10/28/24 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/28/24 15:16*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/28/24 15:16*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 15:16*	*1*

Client Sample ID: EW-2-102324-DUP
Lab Sample ID: 480-224872-6

Date Collected: 10/23/24 11:20
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 15:38	1
Carbon disulfide	**1.5**		1.0	0.19	ug/L			10/28/24 15:38	1
Carbon tetrachloride	**52**		1.0	0.27	ug/L			10/28/24 15:38	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 15:38	1
Chloroform	**41**		1.0	0.34	ug/L			10/28/24 15:38	1
Methylene Chloride	**3.0**		1.0	0.44	ug/L			10/28/24 15:38	1
Tetrachloroethene	**4.2**		1.0	0.36	ug/L			10/28/24 15:38	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 15:38	1
Trichloroethene	**2.2**		1.0	0.46	ug/L			10/28/24 15:38	1

Client Sample ID: EW-2-102324-DUP

Lab Sample ID: 480-224872-6

Date Collected: 10/23/24 11:20

Matrix: Water

Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/28/24 15:38*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 123*		*10/28/24 15:38*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/28/24 15:38*	*1*

Client Sample ID: EW-3-102324

Lab Sample ID: 480-224872-7

Date Collected: 10/23/24 11:25

Matrix: Water

Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	21	U	50	21	ug/L			10/28/24 16:00	50
Carbon disulfide	**200**		50	9.5	ug/L			10/28/24 16:00	50
Carbon tetrachloride	**1700**	**F1**	50	14	ug/L			10/28/24 16:00	50
Chlorobenzene	38	U	50	38	ug/L			10/28/24 16:00	50
Chloroform	**820**		50	17	ug/L			10/28/24 16:00	50
Methylene Chloride	**43**	**J**	50	22	ug/L			10/28/24 16:00	50
Tetrachloroethene	**24**	**J**	50	18	ug/L			10/28/24 16:00	50
Toluene	26	U	50	26	ug/L			10/28/24 16:00	50
Trichloroethene	**75**		50	23	ug/L			10/28/24 16:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/28/24 16:00*	*50*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/28/24 16:00*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/28/24 16:00*	*50*

Client Sample ID: EW-3-102324-DUP

Lab Sample ID: 480-224872-8

Date Collected: 10/23/24 11:25

Matrix: Water

Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	21	U	50	21	ug/L			10/28/24 16:22	50
Carbon disulfide	**150**		50	9.5	ug/L			10/28/24 16:22	50
Carbon tetrachloride	**1700**		50	14	ug/L			10/28/24 16:22	50
Chlorobenzene	38	U	50	38	ug/L			10/28/24 16:22	50
Chloroform	**820**		50	17	ug/L			10/28/24 16:22	50
Methylene Chloride	**51**		50	22	ug/L			10/28/24 16:22	50
Tetrachloroethene	**20**	**J**	50	18	ug/L			10/28/24 16:22	50
Toluene	26	U	50	26	ug/L			10/28/24 16:22	50
Trichloroethene	**63**		50	23	ug/L			10/28/24 16:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/28/24 16:22*	*50*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/28/24 16:22*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/28/24 16:22*	*50*

Client Sample ID: EW-4-102324
Lab Sample ID: 480-224872-9

Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 16:44	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 16:44	1
Carbon tetrachloride	**21**		1.0	0.27	ug/L			10/28/24 16:44	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 16:44	1
Chloroform	**23**		1.0	0.34	ug/L			10/28/24 16:44	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 16:44	1
Tetrachloroethene	**5.6**		1.0	0.36	ug/L			10/28/24 16:44	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 16:44	1
Trichloroethene	**2.3**		1.0	0.46	ug/L			10/28/24 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/28/24 16:44*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/28/24 16:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 16:44*	*1*

Client Sample ID: EW-5-102324
Lab Sample ID: 480-224872-10

Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.6	U	4.0	1.6	ug/L			10/28/24 17:06	4
Carbon disulfide	0.76	U	4.0	0.76	ug/L			10/28/24 17:06	4
Carbon tetrachloride	**290**		4.0	1.1	ug/L			10/28/24 17:06	4
Chlorobenzene	3.0	U	4.0	3.0	ug/L			10/28/24 17:06	4
Chloroform	**160**		4.0	1.4	ug/L			10/28/24 17:06	4
Methylene Chloride	1.8	U	4.0	1.8	ug/L			10/28/24 17:06	4
Tetrachloroethene	**62**		4.0	1.4	ug/L			10/28/24 17:06	4
Toluene	2.0	U	4.0	2.0	ug/L			10/28/24 17:06	4
Trichloroethene	**81**		4.0	1.8	ug/L			10/28/24 17:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/28/24 17:06*	*4*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*10/28/24 17:06*	*4*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 17:06*	*4*

Client Sample ID: EW-6-102324
Lab Sample ID: 480-224872-11

Date Collected: 10/23/24 11:35
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82	U	200	82	ug/L			10/28/24 17:28	200
Carbon disulfide	**140**	**J**	200	38	ug/L			10/28/24 17:28	200
Carbon tetrachloride	**8500**		200	54	ug/L			10/28/24 17:28	200
Chlorobenzene	150	U	200	150	ug/L			10/28/24 17:28	200
Chloroform	**3400**		200	68	ug/L			10/28/24 17:28	200
Methylene Chloride	88	U	200	88	ug/L			10/28/24 17:28	200
Tetrachloroethene	**200**		200	72	ug/L			10/28/24 17:28	200
Toluene	100	U	200	100	ug/L			10/28/24 17:28	200
Trichloroethene	92	U	200	92	ug/L			10/28/24 17:28	200

Client Sample ID: EW-6-102324 Lab Sample ID: 480-224872-11

Date Collected: 10/23/24 11:35 **Matrix: Water**
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/28/24 17:28*	*200*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/28/24 17:28*	*200*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/28/24 17:28*	*200*

Client Sample ID: EW-7-102324 Lab Sample ID: 480-224872-12

Date Collected: 10/23/24 11:45 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	41	U	100	41	ug/L			10/28/24 17:50	100
Carbon disulfide	19	U	100	19	ug/L			10/28/24 17:50	100
Carbon tetrachloride	**6800**		100	27	ug/L			10/28/24 17:50	100
Chlorobenzene	75	U	100	75	ug/L			10/28/24 17:50	100
Chloroform	**630**		100	34	ug/L			10/28/24 17:50	100
Methylene Chloride	44	U	100	44	ug/L			10/28/24 17:50	100
Tetrachloroethene	**41**	**J**	100	36	ug/L			10/28/24 17:50	100
Toluene	51	U	100	51	ug/L			10/28/24 17:50	100
Trichloroethene	46	U	100	46	ug/L			10/28/24 17:50	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/28/24 17:50*	*100*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/28/24 17:50*	*100*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/28/24 17:50*	*100*

Client Sample ID: DPA-202-102324 Lab Sample ID: 480-224872-13

Date Collected: 10/23/24 11:50 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82	U	200	82	ug/L			10/29/24 17:52	200
Carbon disulfide	38	U	200	38	ug/L			10/29/24 17:52	200
Carbon tetrachloride	**11000**		200	54	ug/L			10/29/24 17:52	200
Chlorobenzene	150	U	200	150	ug/L			10/29/24 17:52	200
Chloroform	**1800**		200	68	ug/L			10/29/24 17:52	200
Methylene Chloride	88	U	200	88	ug/L			10/29/24 17:52	200
Tetrachloroethene	**340**		200	72	ug/L			10/29/24 17:52	200
Toluene	100	U	200	100	ug/L			10/29/24 17:52	200
Trichloroethene	92	U	200	92	ug/L			10/29/24 17:52	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 17:52*	*200*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 17:52*	*200*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 17:52*	*200*

Client Sample ID: LR-66-102324 Lab Sample ID: 480-224872-14

Date Collected: 10/23/24 11:55 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16	U	40	16	ug/L			10/29/24 18:14	40
Carbon disulfide	7.6	U	40	7.6	ug/L			10/29/24 18:14	40
Carbon tetrachloride	**2000**	**F1**	40	11	ug/L			10/29/24 18:14	40
Chlorobenzene	30	U	40	30	ug/L			10/29/24 18:14	40
Chloroform	**330**		40	14	ug/L			10/29/24 18:14	40
Methylene Chloride	18	U	40	18	ug/L			10/29/24 18:14	40
Tetrachloroethene	**89**		40	14	ug/L			10/29/24 18:14	40
Toluene	20	U	40	20	ug/L			10/29/24 18:14	40
Trichloroethene	18	U	40	18	ug/L			10/29/24 18:14	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/29/24 18:14*	*40*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*10/29/24 18:14*	*40*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 18:14*	*40*

Client Sample ID: OW-3-102324 Lab Sample ID: 480-224872-15

Date Collected: 10/23/24 12:00 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**97**	**J**	100	41	ug/L			10/28/24 18:57	100
Carbon disulfide	**100000**	**E**	100	19	ug/L			10/28/24 18:57	100
Carbon tetrachloride	**610**		100	27	ug/L			10/28/24 18:57	100
Chlorobenzene	75	U	100	75	ug/L			10/28/24 18:57	100
Chloroform	**1100**		100	34	ug/L			10/28/24 18:57	100
Methylene Chloride	44	U	100	44	ug/L			10/28/24 18:57	100
Tetrachloroethene	**140**		100	36	ug/L			10/28/24 18:57	100
Toluene	**130**		100	51	ug/L			10/28/24 18:57	100
Trichloroethene	46	U	100	46	ug/L			10/28/24 18:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/28/24 18:57*	*100*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/28/24 18:57*	*100*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 18:57*	*100*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	820	U	2000	820	ug/L			10/29/24 18:37	2000
Carbon disulfide	**120000**	**D**	2000	380	ug/L			10/29/24 18:37	2000
Carbon tetrachloride	540	U	2000	540	ug/L			10/29/24 18:37	2000
Chlorobenzene	1500	U	2000	1500	ug/L			10/29/24 18:37	2000
Chloroform	**1700**	**J D**	2000	680	ug/L			10/29/24 18:37	2000
Methylene Chloride	880	U	2000	880	ug/L			10/29/24 18:37	2000
Tetrachloroethene	720	U	2000	720	ug/L			10/29/24 18:37	2000
Toluene	1000	U	2000	1000	ug/L			10/29/24 18:37	2000
Trichloroethene	920	U	2000	920	ug/L			10/29/24 18:37	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*	*D*	*77 - 120*		*10/29/24 18:37*	*2000*
Dibromofluoromethane (Surr)	*112*	*D*	*75 - 123*		*10/29/24 18:37*	*2000*

Client Sample ID: OW-3-102324 Lab Sample ID: 480-224872-15

Date Collected: 10/23/24 12:00 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*100*	*D*	*80 - 120*		*10/29/24 18:37*	*2000*

Client Sample ID: OW-5-102324 Lab Sample ID: 480-224872-16

Date Collected: 10/23/24 13:50 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82	U	200	82	ug/L			10/29/24 18:59	200
Carbon disulfide	**8500**		200	38	ug/L			10/29/24 18:59	200
Carbon tetrachloride	54	U	200	54	ug/L			10/29/24 18:59	200
Chlorobenzene	150	U	200	150	ug/L			10/29/24 18:59	200
Chloroform	68	U	200	68	ug/L			10/29/24 18:59	200
Methylene Chloride	88	U	200	88	ug/L			10/29/24 18:59	200
Tetrachloroethene	72	U	200	72	ug/L			10/29/24 18:59	200
Toluene	100	U	200	100	ug/L			10/29/24 18:59	200
Trichloroethene	92	U	200	92	ug/L			10/29/24 18:59	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/29/24 18:59*	*200*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/29/24 18:59*	*200*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 18:59*	*200*

Client Sample ID: W-67L-102324 Lab Sample ID: 480-224872-17

Date Collected: 10/23/24 14:06 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 19:21	1
Carbon disulfide	**10**		1.0	0.19	ug/L			10/29/24 19:21	1
Carbon tetrachloride	**0.88**	**J**	1.0	0.27	ug/L			10/29/24 19:21	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 19:21	1
Chloroform	**6.7**		1.0	0.34	ug/L			10/29/24 19:21	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 19:21	1
Tetrachloroethene	**3.0**		1.0	0.36	ug/L			10/29/24 19:21	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 19:21	1
Trichloroethene	**5.2**		1.0	0.46	ug/L			10/29/24 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*10/29/24 19:21*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/29/24 19:21*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/29/24 19:21*	*1*

Client Sample ID: R-67-102324 Lab Sample ID: 480-224872-18

Date Collected: 10/23/24 14:14 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	410	U	1000	410	ug/L			10/28/24 20:03	1000

Client Sample ID: R-67-102324
Lab Sample ID: 480-224872-18

Date Collected: 10/23/24 14:14
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	**60000**		1000	190	ug/L			10/28/24 20:03	1000
Carbon tetrachloride	270	U	1000	270	ug/L			10/28/24 20:03	1000
Chlorobenzene	750	U	1000	750	ug/L			10/28/24 20:03	1000
Chloroform	340	U	1000	340	ug/L			10/28/24 20:03	1000
Methylene Chloride	440	U	1000	440	ug/L			10/28/24 20:03	1000
Tetrachloroethene	360	U	1000	360	ug/L			10/28/24 20:03	1000
Toluene	510	U	1000	510	ug/L			10/28/24 20:03	1000
Trichloroethene	460	U	1000	460	ug/L			10/28/24 20:03	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/28/24 20:03*	*1000*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/28/24 20:03*	*1000*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/28/24 20:03*	*1000*

Client Sample ID: W-67-102324
Lab Sample ID: 480-224872-19

Date Collected: 10/23/24 14:23
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16	U	40	16	ug/L			10/28/24 20:25	40
Carbon disulfide	7.6	U	40	7.6	ug/L			10/28/24 20:25	40
Carbon tetrachloride	**1300**		40	11	ug/L			10/28/24 20:25	40
Chlorobenzene	30	U	40	30	ug/L			10/28/24 20:25	40
Chloroform	**1300**		40	14	ug/L			10/28/24 20:25	40
Methylene Chloride	**46**		40	18	ug/L			10/28/24 20:25	40
Tetrachloroethene	**79**		40	14	ug/L			10/28/24 20:25	40
Toluene	20	U	40	20	ug/L			10/28/24 20:25	40
Trichloroethene	**210**		40	18	ug/L			10/28/24 20:25	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/28/24 20:25*	*40*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/28/24 20:25*	*40*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/28/24 20:25*	*40*

Client Sample ID: LR-67-102324
Lab Sample ID: 480-224872-20

Date Collected: 10/23/24 14:35
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	82	U	200	82	ug/L			10/28/24 20:47	200
Carbon disulfide	**41000**	**E**	200	38	ug/L			10/28/24 20:47	200
Carbon tetrachloride	54	U	200	54	ug/L			10/28/24 20:47	200
Chlorobenzene	150	U	200	150	ug/L			10/28/24 20:47	200
Chloroform	**220**		200	68	ug/L			10/28/24 20:47	200
Methylene Chloride	88	U	200	88	ug/L			10/28/24 20:47	200
Tetrachloroethene	**850**		200	72	ug/L			10/28/24 20:47	200
Toluene	100	U	200	100	ug/L			10/28/24 20:47	200
Trichloroethene	**2300**		200	92	ug/L			10/28/24 20:47	200

Client Sample ID: LR-67-102324 Lab Sample ID: 480-224872-20

Date Collected: 10/23/24 14:35 **Matrix: Water**
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/28/24 20:47*	*200*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/28/24 20:47*	*200*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/28/24 20:47*	*200*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	330	U	800	330	ug/L			10/29/24 19:43	800
Carbon disulfide	**36000**	**D**	800	150	ug/L			10/29/24 19:43	800
Carbon tetrachloride	220	U	800	220	ug/L			10/29/24 19:43	800
Chlorobenzene	600	U	800	600	ug/L			10/29/24 19:43	800
Chloroform	**320**	**J D**	800	270	ug/L			10/29/24 19:43	800
Methylene Chloride	350	U	800	350	ug/L			10/29/24 19:43	800
Tetrachloroethene	**690**	**J D**	800	290	ug/L			10/29/24 19:43	800
Toluene	410	U	800	410	ug/L			10/29/24 19:43	800
Trichloroethene	**1900**	**D**	800	370	ug/L			10/29/24 19:43	800

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*	*D*	*77 - 120*		*10/29/24 19:43*	*800*
Dibromofluoromethane (Surr)	*112*	*D*	*75 - 123*		*10/29/24 19:43*	*800*
Toluene-d8 (Surr)	*102*	*D*	*80 - 120*		*10/29/24 19:43*	*800*

Client Sample ID: LR-48-102324 Lab Sample ID: 480-224872-21

Date Collected: 10/23/24 14:51 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 21:09	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 21:09	1
Carbon tetrachloride	**9.6**		1.0	0.27	ug/L			10/28/24 21:09	1
Chlorobenzene	**14**		1.0	0.75	ug/L			10/28/24 21:09	1
Chloroform	**3.9**		1.0	0.34	ug/L			10/28/24 21:09	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 21:09	1
Tetrachloroethene	**4.0**		1.0	0.36	ug/L			10/28/24 21:09	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 21:09	1
Trichloroethene	**3.5**		1.0	0.46	ug/L			10/28/24 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/28/24 21:09*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/28/24 21:09*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 21:09*	*1*

Client Sample ID: R-48-102324 Lab Sample ID: 480-224872-22

Date Collected: 10/23/24 15:02 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0	0.41	ug/L			10/28/24 21:31	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 21:31	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/28/24 21:31	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 21:31	1

Client Sample ID: R-48-102324 Lab Sample ID: 480-224872-22

Date Collected: 10/23/24 15:02 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	0.34	U	1.0	0.34	ug/L			10/28/24 21:31	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 21:31	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/28/24 21:31	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 21:31	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/28/24 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/28/24 21:31*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/28/24 21:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/28/24 21:31*	*1*

Client Sample ID: W-19B-102324 Lab Sample ID: 480-224872-23

Date Collected: 10/23/24 15:29 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.98**	**J**	1.0	0.41	ug/L			10/28/24 21:53	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 21:53	1
Carbon tetrachloride	**21**		1.0	0.27	ug/L			10/28/24 21:53	1
Chlorobenzene	**59**		1.0	0.75	ug/L			10/28/24 21:53	1
Chloroform	**3.4**		1.0	0.34	ug/L			10/28/24 21:53	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 21:53	1
Tetrachloroethene	**0.71**	**J**	1.0	0.36	ug/L			10/28/24 21:53	1
Toluene	**0.71**	**J**	1.0	0.51	ug/L			10/28/24 21:53	1
Trichloroethene	**6.3**		1.0	0.46	ug/L			10/28/24 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/28/24 21:53*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/28/24 21:53*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/28/24 21:53*	*1*

Client Sample ID: R-19-102324 Lab Sample ID: 480-224872-24

Date Collected: 10/23/24 15:37 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**8.1**		2.0	0.82	ug/L			10/29/24 02:41	2
Carbon disulfide	0.38	U	2.0	0.38	ug/L			10/29/24 02:41	2
Carbon tetrachloride	**21**		2.0	0.54	ug/L			10/29/24 02:41	2
Chlorobenzene	1.5	U	2.0	1.5	ug/L			10/29/24 02:41	2
Chloroform	**18**		2.0	0.68	ug/L			10/29/24 02:41	2
Methylene Chloride	**17**		2.0	0.88	ug/L			10/29/24 02:41	2
Tetrachloroethene	**1.1**	**J**	2.0	0.72	ug/L			10/29/24 02:41	2
Toluene	1.0	U	2.0	1.0	ug/L			10/29/24 02:41	2
Trichloroethene	0.92	U	2.0	0.92	ug/L			10/29/24 02:41	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*10/29/24 02:41*	*2*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*10/29/24 02:41*	*2*

Client Sample ID: R-19-102324 Lab Sample ID: 480-224872-24

Date Collected: 10/23/24 15:37 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/29/24 02:41*	*2*

Client Sample ID: LR-61-102424 Lab Sample ID: 480-224872-25

Date Collected: 10/24/24 08:54 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.2	U	20	8.2	ug/L			10/29/24 03:03	20
Carbon disulfide	**450**		20	3.8	ug/L			10/29/24 03:03	20
Carbon tetrachloride	**4200**	**E**	20	5.4	ug/L			10/29/24 03:03	20
Chlorobenzene	**24**		20	15	ug/L			10/29/24 03:03	20
Chloroform	**2600**	**E**	20	6.8	ug/L			10/29/24 03:03	20
Methylene Chloride	**170**		20	8.8	ug/L			10/29/24 03:03	20
Tetrachloroethene	**61**		20	7.2	ug/L			10/29/24 03:03	20
Toluene	10	U	20	10	ug/L			10/29/24 03:03	20
Trichloroethene	**59**		20	9.2	ug/L			10/29/24 03:03	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*10/29/24 03:03*	*20*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 03:03*	*20*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 03:03*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	33	U	80	33	ug/L			10/29/24 20:05	80
Carbon disulfide	**430**	**D**	80	15	ug/L			10/29/24 20:05	80
Carbon tetrachloride	**4000**	**D**	80	22	ug/L			10/29/24 20:05	80
Chlorobenzene	60	U	80	60	ug/L			10/29/24 20:05	80
Chloroform	**2500**	**D**	80	27	ug/L			10/29/24 20:05	80
Methylene Chloride	**120**	**D**	80	35	ug/L			10/29/24 20:05	80
Tetrachloroethene	**52**	**J D**	80	29	ug/L			10/29/24 20:05	80
Toluene	41	U	80	41	ug/L			10/29/24 20:05	80
Trichloroethene	**54**	**J D**	80	37	ug/L			10/29/24 20:05	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*111*	*D*	*77 - 120*		*10/29/24 20:05*	*80*
Dibromofluoromethane (Surr)	*113*	*D*	*75 - 123*		*10/29/24 20:05*	*80*
Toluene-d8 (Surr)	*101*	*D*	*80 - 120*		*10/29/24 20:05*	*80*

Client Sample ID: LR-51-102424 Lab Sample ID: 480-224872-26

Date Collected: 10/24/24 09:26 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 03:25	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 03:25	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 03:25	1
Chlorobenzene	**1.7**		1.0	0.75	ug/L			10/29/24 03:25	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 03:25	1

Client Sample ID: LR-51-102424 Lab Sample ID: 480-224872-26

Date Collected: 10/24/24 09:26 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 03:25	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 03:25	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 03:25	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 03:25*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/29/24 03:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 03:25*	*1*

Client Sample ID: LR-50-102424 Lab Sample ID: 480-224872-27

Date Collected: 10/24/24 09:41 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 20:27	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 20:27	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 20:27	1
Chlorobenzene	**0.89**	**J**	1.0	0.75	ug/L			10/29/24 20:27	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 20:27	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 20:27	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 20:27	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 20:27	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 20:27*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/29/24 20:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 20:27*	*1*

Client Sample ID: R-68-102424 Lab Sample ID: 480-224872-28

Date Collected: 10/24/24 10:06 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4100	U	10000	4100	ug/L			10/29/24 04:10	10000
Carbon disulfide	**580000**		10000	1900	ug/L			10/29/24 04:10	10000
Carbon tetrachloride	**71000**		10000	2700	ug/L			10/29/24 04:10	10000
Chlorobenzene	7500	U	10000	7500	ug/L			10/29/24 04:10	10000
Chloroform	**86000**		10000	3400	ug/L			10/29/24 04:10	10000
Methylene Chloride	4400	U	10000	4400	ug/L			10/29/24 04:10	10000
Tetrachloroethene	3600	U	10000	3600	ug/L			10/29/24 04:10	10000
Toluene	5100	U	10000	5100	ug/L			10/29/24 04:10	10000
Trichloroethene	4600	U	10000	4600	ug/L			10/29/24 04:10	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 04:10*	*10000*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/29/24 04:10*	*10000*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 04:10*	*10000*

Client Sample ID: L-16-102424 Lab Sample ID: 480-224872-29

Date Collected: 10/24/24 10:40 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 20:49	1
Carbon disulfide	**14**		1.0	0.19	ug/L			10/29/24 20:49	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 20:49	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 20:49	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 20:49	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 20:49	1
Tetrachloroethene	**0.38**	**J**	1.0	0.36	ug/L			10/29/24 20:49	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 20:49	1
Trichloroethene	**2.9**		1.0	0.46	ug/L			10/29/24 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/29/24 20:49*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 20:49*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 20:49*	*1*

Client Sample ID: W-16L-102424 Lab Sample ID: 480-224872-30

Date Collected: 10/24/24 10:55 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 21:11	1
Carbon disulfide	**8.6**		1.0	0.19	ug/L			10/29/24 21:11	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 21:11	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 21:11	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 21:11	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 21:11	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 21:11	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 21:11	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 21:11*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 21:11*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 21:11*	*1*

Client Sample ID: R-16-102424 Lab Sample ID: 480-224872-31

Date Collected: 10/24/24 11:07 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**140**		20	8.2	ug/L			10/29/24 05:16	20
Carbon disulfide	3.8	U	20	3.8	ug/L			10/29/24 05:16	20
Carbon tetrachloride	5.4	U	20	5.4	ug/L			10/29/24 05:16	20
Chlorobenzene	15	U	20	15	ug/L			10/29/24 05:16	20
Chloroform	6.8	U	20	6.8	ug/L			10/29/24 05:16	20
Methylene Chloride	8.8	U	20	8.8	ug/L			10/29/24 05:16	20
Tetrachloroethene	7.2	U	20	7.2	ug/L			10/29/24 05:16	20
Toluene	**50**		20	10	ug/L			10/29/24 05:16	20
Trichloroethene	9.2	U	20	9.2	ug/L			10/29/24 05:16	20

Client Sample ID: R-16-102424
Lab Sample ID: 480-224872-31

Date Collected: 10/24/24 11:07
Matrix: Water
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*10/29/24 05:16*	*20*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*10/29/24 05:16*	*20*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 05:16*	*20*

Client Sample ID: W-16-102424
Lab Sample ID: 480-224872-32

Date Collected: 10/24/24 11:22
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 21:33	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 21:33	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 21:33	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 21:33	1
Chloroform	**1.4**		1.0	0.34	ug/L			10/29/24 21:33	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 21:33	1
Tetrachloroethene	**23**		1.0	0.36	ug/L			10/29/24 21:33	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 21:33	1
Trichloroethene	**17**		1.0	0.46	ug/L			10/29/24 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 21:33*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 21:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 21:33*	*1*

Client Sample ID: W-66-102424
Lab Sample ID: 480-224872-33

Date Collected: 10/24/24 11:37
Matrix: Water
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 06:00	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 06:00	1
Carbon tetrachloride	**25**		1.0	0.27	ug/L			10/29/24 06:00	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 06:00	1
Chloroform	**12**		1.0	0.34	ug/L			10/29/24 06:00	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 06:00	1
Tetrachloroethene	**24**		1.0	0.36	ug/L			10/29/24 06:00	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 06:00	1
Trichloroethene	**11**		1.0	0.46	ug/L			10/29/24 06:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 06:00*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/29/24 06:00*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 06:00*	*1*

Client Sample ID: W-66L-102424 Lab Sample ID: 480-224872-34

Date Collected: 10/24/24 12:00 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 06:22	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 06:22	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 06:22	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 06:22	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 06:22	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 06:22	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 06:22	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 06:22	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/29/24 06:22*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 06:22*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 06:22*	*1*

Client Sample ID: LR-20-102424 Lab Sample ID: 480-224872-35

Date Collected: 10/24/24 13:30 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 06:45	1
Carbon disulfide	**0.88**	**J**	1.0	0.19	ug/L			10/29/24 06:45	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 06:45	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 06:45	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 06:45	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 06:45	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 06:45	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 06:45	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 06:45*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 06:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/29/24 06:45*	*1*

Client Sample ID: W-20-102424 Lab Sample ID: 480-224872-36

Date Collected: 10/24/24 13:35 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.82	U	2.0	0.82	ug/L			10/29/24 07:07	2
Carbon disulfide	0.38	U	2.0	0.38	ug/L			10/29/24 07:07	2
Carbon tetrachloride	0.54	U	2.0	0.54	ug/L			10/29/24 07:07	2
Chlorobenzene	1.5	U	2.0	1.5	ug/L			10/29/24 07:07	2
Chloroform	0.68	U	2.0	0.68	ug/L			10/29/24 07:07	2
Methylene Chloride	0.88	U	2.0	0.88	ug/L			10/29/24 07:07	2
Tetrachloroethene	0.72	U	2.0	0.72	ug/L			10/29/24 07:07	2
Toluene	1.0	U	2.0	1.0	ug/L			10/29/24 07:07	2
Trichloroethene	0.92	U	2.0	0.92	ug/L			10/29/24 07:07	2

Client Sample ID: W-20-102424 Lab Sample ID: 480-224872-36

Date Collected: 10/24/24 13:35 **Matrix: Water**
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 07:07*	*2*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 07:07*	*2*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 07:07*	*2*

Client Sample ID: LR-49-102424 Lab Sample ID: 480-224872-37

Date Collected: 10/24/24 13:46 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 07:29	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 07:29	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 07:29	1
Chlorobenzene	**1.1**		1.0	0.75	ug/L			10/29/24 07:29	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 07:29	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 07:29	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 07:29	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 07:29	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 07:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 07:29*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/29/24 07:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 07:29*	*1*

Client Sample ID: W-65-102424 Lab Sample ID: 480-224872-38

Date Collected: 10/24/24 14:00 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 07:51	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 07:51	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 07:51	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 07:51	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 07:51	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 07:51	1
Tetrachloroethene	**0.77**	**J**	1.0	0.36	ug/L			10/29/24 07:51	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 07:51	1
Trichloroethene	**0.91**	**J**	1.0	0.46	ug/L			10/29/24 07:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/29/24 07:51*	*1*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 07:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 07:51*	*1*

Client Sample ID: W-23C-102424 Lab Sample ID: 480-224872-39

Date Collected: 10/24/24 14:13 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 08:13	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 08:13	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 08:13	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 08:13	1
Chloroform	**1.5**		1.0	0.34	ug/L			10/29/24 08:13	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 08:13	1
Tetrachloroethene	**1.6**		1.0	0.36	ug/L			10/29/24 08:13	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 08:13	1
Trichloroethene	**0.61**	**J**	1.0	0.46	ug/L			10/29/24 08:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 08:13*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 08:13*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 08:13*	*1*

Client Sample ID: W-70L-102424 Lab Sample ID: 480-224872-40

Date Collected: 10/24/24 14:25 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.3**		2.0	0.82	ug/L			10/29/24 08:35	2
Carbon disulfide	0.38	U	2.0	0.38	ug/L			10/29/24 08:35	2
Carbon tetrachloride	0.54	U	2.0	0.54	ug/L			10/29/24 08:35	2
Chlorobenzene	**28**		2.0	1.5	ug/L			10/29/24 08:35	2
Chloroform	0.68	U	2.0	0.68	ug/L			10/29/24 08:35	2
Methylene Chloride	0.88	U	2.0	0.88	ug/L			10/29/24 08:35	2
Tetrachloroethene	0.72	U	2.0	0.72	ug/L			10/29/24 08:35	2
Toluene	1.0	U	2.0	1.0	ug/L			10/29/24 08:35	2
Trichloroethene	0.92	U	2.0	0.92	ug/L			10/29/24 08:35	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/29/24 08:35*	*2*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 08:35*	*2*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 08:35*	*2*

Client Sample ID: W-18L-102424 Lab Sample ID: 480-224872-41

Date Collected: 10/24/24 14:45 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16	U	40	16	ug/L			10/29/24 08:58	40
Carbon disulfide	7.6	U	40	7.6	ug/L			10/29/24 08:58	40
Carbon tetrachloride	**940**		40	11	ug/L			10/29/24 08:58	40
Chlorobenzene	30	U	40	30	ug/L			10/29/24 08:58	40
Chloroform	**1000**		40	14	ug/L			10/29/24 08:58	40
Methylene Chloride	18	U	40	18	ug/L			10/29/24 08:58	40
Tetrachloroethene	**87**		40	14	ug/L			10/29/24 08:58	40
Toluene	20	U	40	20	ug/L			10/29/24 08:58	40
Trichloroethene	**65**		40	18	ug/L			10/29/24 08:58	40

Client Sample ID: W-18L-102424 Lab Sample ID: 480-224872-41

Date Collected: 10/24/24 14:45 **Matrix: Water**
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*77 - 120*		*10/29/24 08:58*	*40*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 08:58*	*40*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 08:58*	*40*

Client Sample ID: W-18R-102424 Lab Sample ID: 480-224872-42

Date Collected: 10/24/24 15:15 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	330	U	800	330	ug/L			10/29/24 09:20	800
Carbon disulfide	150	U	800	150	ug/L			10/29/24 09:20	800
Carbon tetrachloride	**36000**		800	220	ug/L			10/29/24 09:20	800
Chlorobenzene	600	U	800	600	ug/L			10/29/24 09:20	800
Chloroform	**11000**		800	270	ug/L			10/29/24 09:20	800
Methylene Chloride	350	U	800	350	ug/L			10/29/24 09:20	800
Tetrachloroethene	**350**	**J**	800	290	ug/L			10/29/24 09:20	800
Toluene	410	U	800	410	ug/L			10/29/24 09:20	800
Trichloroethene	370	U	800	370	ug/L			10/29/24 09:20	800

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/29/24 09:20*	*800*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 09:20*	*800*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 09:20*	*800*

Client Sample ID: LR-62-102424 Lab Sample ID: 480-224872-43

Date Collected: 10/24/24 15:30 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.95**	**J**	1.0	0.41	ug/L			10/29/24 21:55	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 21:55	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 21:55	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 21:55	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 21:55	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 21:55	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 21:55	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 21:55	1
Trichloroethene	**0.78**	**J**	1.0	0.46	ug/L			10/29/24 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 21:55*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 21:55*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*10/29/24 21:55*	*1*

Client Sample ID: R-60-102424 — Lab Sample ID: 480-224872-44

Date Collected: 10/24/24 15:53 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.9**		1.0	0.41	ug/L			10/29/24 10:04	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 10:04	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 10:04	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 10:04	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 10:04	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 10:04	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 10:04	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 10:04	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/29/24 10:04*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 10:04*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 10:04*	*1*

Client Sample ID: R-60-102424-DUP — Lab Sample ID: 480-224872-45

Date Collected: 10/24/24 15:53 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**6.5**		1.0	0.41	ug/L			10/29/24 10:26	1
Carbon disulfide	**0.74**	**J**	1.0	0.19	ug/L			10/29/24 10:26	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 10:26	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 10:26	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 10:26	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 10:26	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 10:26	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 10:26	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/29/24 10:26*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 10:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/29/24 10:26*	*1*

Client Sample ID: R-80-102424 — Lab Sample ID: 480-224872-46

Date Collected: 10/24/24 16:07 **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**160**		100	41	ug/L			10/29/24 10:48	100
Carbon disulfide	**5000**		100	19	ug/L			10/29/24 10:48	100
Carbon tetrachloride	27	U	100	27	ug/L			10/29/24 10:48	100
Chlorobenzene	75	U	100	75	ug/L			10/29/24 10:48	100
Chloroform	**330**		100	34	ug/L			10/29/24 10:48	100
Methylene Chloride	44	U	100	44	ug/L			10/29/24 10:48	100
Tetrachloroethene	36	U	100	36	ug/L			10/29/24 10:48	100
Toluene	**59**	**J**	100	51	ug/L			10/29/24 10:48	100
Trichloroethene	46	U	100	46	ug/L			10/29/24 10:48	100

Client Sample ID: R-80-102424 — Lab Sample ID: 480-224872-46

Date Collected: 10/24/24 16:07 — **Matrix: Water**
Date Received: 10/25/24 11:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*10/29/24 10:48*	*100*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*10/29/24 10:48*	*100*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 10:48*	*100*

Client Sample ID: IR-80-102424 — Lab Sample ID: 480-224872-47

Date Collected: 10/24/24 16:18 — **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.3**		4.0	1.6	ug/L			10/29/24 22:18	4
Carbon disulfide	**170**		4.0	0.76	ug/L			10/29/24 22:18	4
Carbon tetrachloride	**16**		4.0	1.1	ug/L			10/29/24 22:18	4
Chlorobenzene	3.0	U	4.0	3.0	ug/L			10/29/24 22:18	4
Chloroform	**170**		4.0	1.4	ug/L			10/29/24 22:18	4
Methylene Chloride	**28**		4.0	1.8	ug/L			10/29/24 22:18	4
Tetrachloroethene	**2.9**	**J**	4.0	1.4	ug/L			10/29/24 22:18	4
Toluene	**6.2**		4.0	2.0	ug/L			10/29/24 22:18	4
Trichloroethene	1.8	U	4.0	1.8	ug/L			10/29/24 22:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*10/29/24 22:18*	*4*
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/29/24 22:18*	*4*
Toluene-d8 (Surr)	*98*		*80 - 120*		*10/29/24 22:18*	*4*

Client Sample ID: Trip Blank — Lab Sample ID: 480-224872-48

Date Collected: 10/22/24 00:00 — **Matrix: Water**
Date Received: 10/25/24 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 11:33	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 11:33	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 11:33	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 11:33	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 11:33	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 11:33	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 11:33	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 11:33	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*10/29/24 11:33*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*10/29/24 11:33*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/29/24 11:33*	*1*

Surrogate Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(75-123)	(80-120)
480-224872-1	INF-102324	110	114	100
480-224872-2	CBT-102324	112	115	100
480-224872-2 - DL	CBT-102324	109 D	109 D	101 D
480-224872-3	EFF-102324	109	111	100
480-224872-4	EW-1R-102324	109	112	102
480-224872-5	EW-2-102324	111	114	99
480-224872-5 MS	EW-2-102324	112	113	104
480-224872-5 MSD	EW-2-102324	110	113	101
480-224872-6	EW-2-102324-DUP	114	117	103
480-224872-7	EW-3-102324	110	113	98
480-224872-7 MS	EW-3-102324	107	110	102
480-224872-7 MSD	EW-3-102324	109	112	105
480-224872-8	EW-3-102324-DUP	110	114	100
480-224872-9	EW-4-102324	110	110	99
480-224872-10	EW-5-102324	114	118	99
480-224872-11	EW-6-102324	112	114	101
480-224872-12	EW-7-102324	113	113	101
480-224872-13	DPA-202-102324	111	113	100
480-224872-14	LR-66-102324	109	111	101
480-224872-14 MS	LR-66-102324	108	112	103
480-224872-14 MSD	LR-66-102324	108	110	102
480-224872-15	OW-3-102324	112	116	99
480-224872-15 - DL	OW-3-102324	111 D	112 D	100 D
480-224872-16	OW-5-102324	110	115	100
480-224872-17	W-67L-102324	115	114	102
480-224872-18	R-67-102324	112	116	101
480-224872-19	W-67-102324	114	116	102
480-224872-20	LR-67-102324	114	115	102
480-224872-20 - DL	LR-67-102324	110 D	112 D	102 D
480-224872-21	LR-48-102324	111	114	99
480-224872-22	R-48-102324	113	115	99
480-224872-23	W-19B-102324	113	115	97
480-224872-24	R-19-102324	106	109	102
480-224872-25	LR-61-102424	109	113	100
480-224872-25 - DL	LR-61-102424	111 D	113 D	101 D
480-224872-26	LR-51-102424	113	114	100
480-224872-27	LR-50-102424	111	115	100
480-224872-28	R-68-102424	113	115	99
480-224872-29	L-16-102424	114	116	99
480-224872-30	W-16L-102424	113	113	101
480-224872-31	R-16-102424	108	111	99
480-224872-32	W-16-102424	113	116	101
480-224872-33	W-66-102424	113	114	101
480-224872-34	W-66L-102424	114	116	100
480-224872-35	LR-20-102424	111	112	97
480-224872-36	W-20-102424	111	112	100
480-224872-37	LR-49-102424	113	114	100
480-224872-38	W-65-102424	114	116	101
480-224872-39	W-23C-102424	111	112	99

Surrogate Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(75-123)	(80-120)
480-224872-40	W-70L-102424	112	112	99
480-224872-41	W-18L-102424	115	116	100
480-224872-41 MS	W-18L-102424	108	108	101
480-224872-41 MSD	W-18L-102424	108	110	102
480-224872-42	W-18R-102424	112	113	100
480-224872-43	LR-62-102424	111	112	100
480-224872-44	R-60-102424	112	112	99
480-224872-45	R-60-102424-DUP	112	113	98
480-224872-46	R-80-102424	113	113	101
480-224872-47	IR-80-102424	112	116	98
480-224872-48	Trip Blank	114	118	99
LCS 480-730076/6	Lab Control Sample	106	108	103
LCS 480-730119/6	Lab Control Sample	107	111	104
LCS 480-730274/6	Lab Control Sample	107	107	103
MB 480-730076/8	Method Blank	107	108	97
MB 480-730119/8	Method Blank	111	112	101
MB 480-730274/8	Method Blank	110	110	103

Surrogate Legend

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

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(25-144)	(53-126)	(24-120)	(29-129)	(10-120)	(33-132)
480-224872-3	EFF-102324	82	91	66	102	50	97
LCS 480-730235/2-A	Lab Control Sample	82	81	62	89	51	82
LCSD 480-730235/3-A	Lab Control Sample Dup	90	87	71	97	56	88
MB 480-730235/1-A	Method Blank	70	71	58	83	43	93

Surrogate Legend

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

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

Lab Sample ID: MB 480-730076/8
Matrix: Water
Analysis Batch: 730076

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/28/24 13:22	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/28/24 13:22	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/28/24 13:22	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/28/24 13:22	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/28/24 13:22	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/28/24 13:22	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/28/24 13:22	1
Toluene	0.51	U	1.0	0.51	ug/L			10/28/24 13:22	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/28/24 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/28/24 13:22*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*10/28/24 13:22*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/28/24 13:22*	*1*

Lab Sample ID: LCS 480-730076/6
Matrix: Water
Analysis Batch: 730076

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	25.0		ug/L		100	71 - 124
Carbon disulfide	25.0	26.2		ug/L		105	59 - 134
Carbon tetrachloride	25.0	30.0		ug/L		120	72 - 134
Chlorobenzene	25.0	25.5		ug/L		102	80 - 120
Chloroform	25.0	25.6		ug/L		103	73 - 127
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Tetrachloroethene	25.0	27.5		ug/L		110	74 - 122
Toluene	25.0	24.6		ug/L		98	80 - 122
Trichloroethene	25.0	26.8		ug/L		107	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 480-224872-5 MS
Matrix: Water
Analysis Batch: 730076

Client Sample ID: EW-2-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.41	U	25.0	28.3		ug/L		113	71 - 124
Carbon disulfide	11		25.0	30.1		ug/L		76	59 - 134
Carbon tetrachloride	49	F1	25.0	88.3	F1	ug/L		158	72 - 134
Chlorobenzene	0.75	U	25.0	29.0		ug/L		116	80 - 120
Chloroform	38		25.0	67.9		ug/L		118	73 - 127
Methylene Chloride	2.8		25.0	32.2		ug/L		117	75 - 124
Tetrachloroethene	3.5	F1	25.0	34.7	F1	ug/L		125	74 - 122
Toluene	0.51	U	25.0	27.8		ug/L		111	80 - 122

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

Lab Sample ID: 480-224872-5 MS
Matrix: Water
Analysis Batch: 730076

Client Sample ID: EW-2-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	2.0		25.0	32.5		ug/L		122	74 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*
Dibromofluoromethane (Surr)	*113*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 480-224872-5 MSD
Matrix: Water
Analysis Batch: 730076

Client Sample ID: EW-2-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.41	U	25.0	26.7		ug/L		107	71 - 124	6	13
Carbon disulfide	11		25.0	27.6		ug/L		66	59 - 134	9	15
Carbon tetrachloride	49	F1	25.0	86.9	F1	ug/L		153	72 - 134	2	15
Chlorobenzene	0.75	U	25.0	27.1		ug/L		108	80 - 120	7	25
Chloroform	38		25.0	67.2		ug/L		115	73 - 127	1	20
Methylene Chloride	2.8		25.0	30.6		ug/L		111	75 - 124	5	15
Tetrachloroethene	3.5	F1	25.0	33.1		ug/L		118	74 - 122	5	20
Toluene	0.51	U	25.0	25.6		ug/L		102	80 - 122	8	15
Trichloroethene	2.0		25.0	31.3		ug/L		117	74 - 123	4	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
Dibromofluoromethane (Surr)	*113*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-224872-7 MS
Matrix: Water
Analysis Batch: 730076

Client Sample ID: EW-3-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	21	U	1250	1190		ug/L		95	71 - 124
Carbon disulfide	200		1250	1350		ug/L		92	59 - 134
Carbon tetrachloride	1700	F1	1250	3250		ug/L		123	72 - 134
Chlorobenzene	38	U	1250	1250		ug/L		100	80 - 120
Chloroform	820		1250	2150		ug/L		107	73 - 127
Methylene Chloride	43	J	1250	1300		ug/L		101	75 - 124
Tetrachloroethene	24	J	1250	1310		ug/L		103	74 - 122
Toluene	26	U	1250	1200		ug/L		96	80 - 122
Trichloroethene	75		1250	1370		ug/L		103	74 - 123

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: 480-224872-7 MSD
Matrix: Water
Analysis Batch: 730076

Client Sample ID: EW-3-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	21	U	1250	1270		ug/L		101	71 - 124	6	13
Carbon disulfide	200		1250	1470		ug/L		102	59 - 134	9	15
Carbon tetrachloride	1700	F1	1250	3430	F1	ug/L		138	72 - 134	6	15
Chlorobenzene	38	U	1250	1270		ug/L		101	80 - 120	1	25
Chloroform	820		1250	2260		ug/L		115	73 - 127	5	20
Methylene Chloride	43	J	1250	1360		ug/L		105	75 - 124	4	15
Tetrachloroethene	24	J	1250	1390		ug/L		109	74 - 122	6	20
Toluene	26	U	1250	1250		ug/L		100	80 - 122	4	15
Trichloroethene	75		1250	1430		ug/L		108	74 - 123	4	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 480-730119/8
Matrix: Water
Analysis Batch: 730119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 02:19	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 02:19	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 02:19	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 02:19	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 02:19	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 02:19	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 02:19	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 02:19	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 02:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/29/24 02:19*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*10/29/24 02:19*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/29/24 02:19*	*1*

Lab Sample ID: LCS 480-730119/6
Matrix: Water
Analysis Batch: 730119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	24.6		ug/L		98	71 - 124
Carbon disulfide	25.0	25.2		ug/L		101	59 - 134
Carbon tetrachloride	25.0	30.0		ug/L		120	72 - 134
Chlorobenzene	25.0	25.1		ug/L		101	80 - 120
Chloroform	25.0	25.9		ug/L		104	73 - 127
Methylene Chloride	25.0	25.5		ug/L		102	75 - 124
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122

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

Lab Sample ID: LCS 480-730119/6
Matrix: Water
Analysis Batch: 730119

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene			25.0	26.8		ug/L		107	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Dibromofluoromethane (Surr)	*111*		*75 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 480-224872-41 MS
Matrix: Water
Analysis Batch: 730119

Client Sample ID: W-18L-102424
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	16	U	1000	960		ug/L		96	71 - 124		
Carbon disulfide	7.6	U	1000	955		ug/L		95	59 - 134		
Carbon tetrachloride	940		1000	1980		ug/L		104	72 - 134		
Chlorobenzene	30	U	1000	979		ug/L		98	80 - 120		
Chloroform	1000		1000	1870		ug/L		85	73 - 127		
Methylene Chloride	18	U	1000	1000		ug/L		100	75 - 124		
Tetrachloroethene	87		1000	1090		ug/L		100	74 - 122		
Toluene	20	U	1000	942		ug/L		94	80 - 122		
Trichloroethene	65		1000	1080		ug/L		101	74 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-224872-41 MSD
Matrix: Water
Analysis Batch: 730119

Client Sample ID: W-18L-102424
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	16	U	1000	995		ug/L		100	71 - 124	4	13
Carbon disulfide	7.6	U	1000	1020		ug/L		102	59 - 134	7	15
Carbon tetrachloride	940		1000	2110		ug/L		116	72 - 134	6	15
Chlorobenzene	30	U	1000	984		ug/L		98	80 - 120	1	25
Chloroform	1000		1000	1920		ug/L		89	73 - 127	2	20
Methylene Chloride	18	U	1000	1050		ug/L		105	75 - 124	4	15
Tetrachloroethene	87		1000	1140		ug/L		106	74 - 122	5	20
Toluene	20	U	1000	974		ug/L		97	80 - 122	3	15
Trichloroethene	65		1000	1130		ug/L		107	74 - 123	5	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 480-730274/8
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 730274

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.41	U	1.0	0.41	ug/L			10/29/24 14:55	1
Carbon disulfide	0.19	U	1.0	0.19	ug/L			10/29/24 14:55	1
Carbon tetrachloride	0.27	U	1.0	0.27	ug/L			10/29/24 14:55	1
Chlorobenzene	0.75	U	1.0	0.75	ug/L			10/29/24 14:55	1
Chloroform	0.34	U	1.0	0.34	ug/L			10/29/24 14:55	1
Methylene Chloride	0.44	U	1.0	0.44	ug/L			10/29/24 14:55	1
Tetrachloroethene	0.36	U	1.0	0.36	ug/L			10/29/24 14:55	1
Toluene	0.51	U	1.0	0.51	ug/L			10/29/24 14:55	1
Trichloroethene	0.46	U	1.0	0.46	ug/L			10/29/24 14:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*10/29/24 14:55*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/29/24 14:55*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/29/24 14:55*	*1*

Lab Sample ID: LCS 480-730274/6
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 730274

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	25.0	25.3		ug/L		101	71 - 124
Carbon disulfide	25.0	25.8		ug/L		103	59 - 134
Carbon tetrachloride	25.0	30.2		ug/L		121	72 - 134
Chlorobenzene	25.0	26.1		ug/L		105	80 - 120
Chloroform	25.0	25.8		ug/L		103	73 - 127
Methylene Chloride	25.0	25.5		ug/L		102	75 - 124
Tetrachloroethene	25.0	28.6		ug/L		114	74 - 122
Toluene	25.0	25.0		ug/L		100	80 - 122
Trichloroethene	25.0	26.3		ug/L		105	74 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 480-224872-14 MS
Client Sample ID: LR-66-102324
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 730274

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	16	U	1000	971		ug/L		97	71 - 124
Carbon disulfide	7.6	U	1000	1000		ug/L		100	59 - 134
Carbon tetrachloride	2000	F1	1000	2680	F1	ug/L		68	72 - 134
Chlorobenzene	30	U	1000	986		ug/L		99	80 - 120
Chloroform	330		1000	1280		ug/L		94	73 - 127
Methylene Chloride	18	U	1000	1040		ug/L		104	75 - 124
Tetrachloroethene	89		1000	1110		ug/L		102	74 - 122
Toluene	20	U	1000	946		ug/L		95	80 - 122

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

Lab Sample ID: 480-224872-14 MS
Matrix: Water
Analysis Batch: 730274

Client Sample ID: LR-66-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Trichloroethene	18	U	1000	1050		ug/L		105	74 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 480-224872-14 MSD
Matrix: Water
Analysis Batch: 730274

Client Sample ID: LR-66-102324
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	16	U	1000	995		ug/L		99	71 - 124	2	13
Carbon disulfide	7.6	U	1000	1040		ug/L		104	59 - 134	4	15
Carbon tetrachloride	2000	F1	1000	2790		ug/L		78	72 - 134	4	15
Chlorobenzene	30	U	1000	1020		ug/L		102	80 - 120	3	25
Chloroform	330		1000	1300		ug/L		96	73 - 127	2	20
Methylene Chloride	18	U	1000	1040		ug/L		104	75 - 124	0	15
Tetrachloroethene	89		1000	1170		ug/L		108	74 - 122	5	20
Toluene	20	U	1000	984		ug/L		98	80 - 122	4	15
Trichloroethene	18	U	1000	1070		ug/L		107	74 - 123	2	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 480-730235/1-A
Matrix: Water
Analysis Batch: 730403

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	0.51	U	5.0	0.51	ug/L		10/29/24 09:26	10/30/24 13:02	1
Hexachloroethane	0.59	U	5.0	0.59	ug/L		10/29/24 09:26	10/30/24 13:02	1
Naphthalene	0.997	J	5.0	0.76	ug/L		10/29/24 09:26	10/30/24 13:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*25 - 144*	*10/29/24 09:26*	*10/30/24 13:02*	*1*
2-Fluorobiphenyl	*71*		*53 - 126*	*10/29/24 09:26*	*10/30/24 13:02*	*1*
2-Fluorophenol (Surr)	*58*		*24 - 120*	*10/29/24 09:26*	*10/30/24 13:02*	*1*
Nitrobenzene-d5 (Surr)	*83*		*29 - 129*	*10/29/24 09:26*	*10/30/24 13:02*	*1*
Phenol-d5 (Surr)	*43*		*10 - 120*	*10/29/24 09:26*	*10/30/24 13:02*	*1*
p-Terphenyl-d14 (Surr)	*93*		*33 - 132*	*10/29/24 09:26*	*10/30/24 13:02*	*1*

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

Lab Sample ID: LCS 480-730235/2-A
Matrix: Water
Analysis Batch: 730403

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730235

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-Dichlorophenol			32.0	26.1		ug/L		81	63 - 120		
Hexachloroethane			32.0	23.5		ug/L		74	33 - 120		
Naphthalene			32.0	23.6		ug/L		74	57 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*25 - 144*
2-Fluorobiphenyl	*81*		*53 - 126*
2-Fluorophenol (Surr)	*62*		*24 - 120*
Nitrobenzene-d5 (Surr)	*89*		*29 - 129*
Phenol-d5 (Surr)	*51*		*10 - 120*
p-Terphenyl-d14 (Surr)	*82*		*33 - 132*

Lab Sample ID: LCSD 480-730235/3-A
Matrix: Water
Analysis Batch: 730403

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 730235

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dichlorophenol			32.0	27.9		ug/L		87	63 - 120	7	19
Hexachloroethane			32.0	27.5		ug/L		86	33 - 120	15	46
Naphthalene			32.0	29.8		ug/L		93	57 - 120	23	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*25 - 144*
2-Fluorobiphenyl	*87*		*53 - 126*
2-Fluorophenol (Surr)	*71*		*24 - 120*
Nitrobenzene-d5 (Surr)	*97*		*29 - 129*
Phenol-d5 (Surr)	*56*		*10 - 120*
p-Terphenyl-d14 (Surr)	*88*		*33 - 132*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 480-730151/1-A
Matrix: Water
Analysis Batch: 730400

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0056	U	0.015	0.0056	mg/L		10/29/24 08:45	10/29/24 16:35	1
Chromium	0.0010	U	0.0040	0.0010	mg/L		10/29/24 08:45	10/29/24 16:35	1
Copper	0.0016	U	0.010	0.0016	mg/L		10/29/24 08:45	10/29/24 16:35	1
Nickel	0.0013	U	0.010	0.0013	mg/L		10/29/24 08:45	10/29/24 16:35	1
Lead	0.0030	U	0.010	0.0030	mg/L		10/29/24 08:45	10/29/24 16:35	1
Selenium	0.0087	U	0.025	0.0087	mg/L		10/29/24 08:45	10/29/24 16:35	1
Zinc	0.0015	U ^5-	0.010	0.0015	mg/L		10/29/24 08:45	10/29/24 16:35	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-730151/2-A
Matrix: Water
Analysis Batch: 730400

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1.00	0.987		mg/L		99	80 - 120
Chromium	0.500	0.483		mg/L		97	80 - 120
Copper	0.500	0.490		mg/L		98	80 - 120
Nickel	0.500	0.494		mg/L		99	80 - 120
Lead	0.500	0.502		mg/L		100	80 - 120
Selenium	1.00	0.984		mg/L		98	80 - 120
Zinc	0.500	0.509	^5-	mg/L		102	80 - 120

Lab Sample ID: LCS 480-730151/2-A
Matrix: Water
Analysis Batch: 730572

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.500	0.509	^5-	mg/L		102	80 - 120

Lab Sample ID: 480-224872-3 MS
Matrix: Water
Analysis Batch: 730400

Client Sample ID: EFF-102324
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0056	U	1.00	1.00		mg/L		100	75 - 125
Chromium	0.0010	U	0.500	0.473		mg/L		95	75 - 125
Copper	0.0016	U	0.500	0.530		mg/L		106	75 - 125
Nickel	0.0013	U	0.500	0.483		mg/L		97	75 - 125
Lead	0.0061	J	0.500	0.506		mg/L		100	75 - 125
Selenium	0.0087	U	1.00	1.02		mg/L		102	75 - 125
Zinc	0.0015	U ^5- L	0.500	0.464	^5-	mg/L		93	75 - 125

Lab Sample ID: 480-224872-3 MS
Matrix: Water
Analysis Batch: 730572

Client Sample ID: EFF-102324
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Zinc	0.0015	U ^5- L	0.500	0.460	^5-	mg/L		92	75 - 125

Lab Sample ID: 480-224872-3 MSD
Matrix: Water
Analysis Batch: 730400

Client Sample ID: EFF-102324
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0056	U	1.00	1.00		mg/L		100	75 - 125	0	20
Chromium	0.0010	U	0.500	0.473		mg/L		95	75 - 125	0	20
Copper	0.0016	U	0.500	0.528		mg/L		106	75 - 125	0	20
Nickel	0.0013	U	0.500	0.481		mg/L		96	75 - 125	1	20
Lead	0.0061	J	0.500	0.512		mg/L		101	75 - 125	1	20
Selenium	0.0087	U	1.00	1.01		mg/L		101	75 - 125	0	20
Zinc	0.0015	U ^5- L	0.500	0.464	^5-	mg/L		93	75 - 125	0	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 480-224872-3 MSD
Matrix: Water
Analysis Batch: 730572

Client Sample ID: EFF-102324
Prep Type: Total Recoverable
Prep Batch: 730151

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0056	U	1.00	0.961		mg/L		96	75 - 125	0	20
Chromium	0.0010	U	0.500	0.486		mg/L		97	75 - 125	0	20
Nickel	0.0013	U	0.500	0.512		mg/L		102	75 - 125	0	20
Lead	0.0030	U	0.500	0.512		mg/L		102	75 - 125	0	20
Selenium	0.0087	U	1.00	0.965		mg/L		96	75 - 125	1	20
Zinc	0.0015	U ^5- L	0.500	0.461	^5-	mg/L		92	75 - 125	0	20

Lab Sample ID: LRC 480-730400/20
Matrix: Water
Analysis Batch: 730400

Client Sample ID: Lab Control Sample

Analyte			Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			5.00	4.94		mg/L		99	90 - 110		
Chromium			10.0	9.01		mg/L		90	90 - 110		
Copper			8.00	8.65		mg/L		108	90 - 110		
Nickel			10.0	9.14		mg/L		91	90 - 110		
Lead			40.0	42.65		mg/L		107	90 - 110		
Selenium			40.0	40.26		mg/L		101	90 - 110		

Lab Sample ID: LRC 480-730572/17
Matrix: Water
Analysis Batch: 730572

Client Sample ID: Lab Control Sample

Analyte			Spike Added	LRC Result	LRC Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			5.00	4.92		mg/L		98	90 - 110		
Chromium			10.0	9.07		mg/L		91	90 - 110		
Nickel			10.0	10.02		mg/L		100	90 - 110		
Lead			40.0	41.94		mg/L		105	90 - 110		
Selenium			40.0	39.10		mg/L		98	90 - 110		
Zinc			20.0	16.86	^5-	mg/L		84	90 - 110		

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 480-730714/16
Matrix: Water
Analysis Batch: 730714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.0035	U	0.010	0.0035	mg/L			10/31/24 09:06	1

Lab Sample ID: MB 480-730714/46
Matrix: Water
Analysis Batch: 730714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolics, Total Recoverable	0.0035	U	0.010	0.0035	mg/L			10/31/24 10:56	1

Method: 420.4 - Phenolics, Total Recoverable (Continued)

Lab Sample ID: LCS 480-730714/17
Matrix: Water
Analysis Batch: 730714

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenolics, Total Recoverable			0.100	0.102		mg/L		102	90 - 110		

Lab Sample ID: LCS 480-730714/47
Matrix: Water
Analysis Batch: 730714

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenolics, Total Recoverable			0.100	0.101		mg/L		101	90 - 110		

Lab Sample ID: 480-224840-L-12 MS
Matrix: Water
Analysis Batch: 730714

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenolics, Total Recoverable	0.0035	U	0.100	0.100		mg/L		100	90 - 110		

Lab Sample ID: 480-224840-L-12 MSD
Matrix: Water
Analysis Batch: 730714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenolics, Total Recoverable	0.0035	U	0.100	0.101		mg/L		101	90 - 110	1	20

Lab Sample ID: 480-224891-L-2 DU
Matrix: Water
Analysis Batch: 730714

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Phenolics, Total Recoverable	0.0035	U		0.0035	U	mg/L				NC	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
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.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

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.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
L	A negative instrument reading had an absolute value greater than the reporting limit
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 730076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-1	INF-102324	Total/NA	Water	8260C	
480-224872-2	CBT-102324	Total/NA	Water	8260C	
480-224872-3	EFF-102324	Total/NA	Water	8260C	
480-224872-4	EW-1R-102324	Total/NA	Water	8260C	
480-224872-5	EW-2-102324	Total/NA	Water	8260C	
480-224872-6	EW-2-102324-DUP	Total/NA	Water	8260C	
480-224872-7	EW-3-102324	Total/NA	Water	8260C	
480-224872-8	EW-3-102324-DUP	Total/NA	Water	8260C	
480-224872-9	EW-4-102324	Total/NA	Water	8260C	
480-224872-10	EW-5-102324	Total/NA	Water	8260C	
480-224872-11	EW-6-102324	Total/NA	Water	8260C	
480-224872-12	EW-7-102324	Total/NA	Water	8260C	
480-224872-15	OW-3-102324	Total/NA	Water	8260C	
480-224872-18	R-67-102324	Total/NA	Water	8260C	
480-224872-19	W-67-102324	Total/NA	Water	8260C	
480-224872-20	LR-67-102324	Total/NA	Water	8260C	
480-224872-21	LR-48-102324	Total/NA	Water	8260C	
480-224872-22	R-48-102324	Total/NA	Water	8260C	
480-224872-23	W-19B-102324	Total/NA	Water	8260C	
MB 480-730076/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730076/6	Lab Control Sample	Total/NA	Water	8260C	
480-224872-5 MS	EW-2-102324	Total/NA	Water	8260C	
480-224872-5 MSD	EW-2-102324	Total/NA	Water	8260C	
480-224872-7 MS	EW-3-102324	Total/NA	Water	8260C	
480-224872-7 MSD	EW-3-102324	Total/NA	Water	8260C	

Analysis Batch: 730119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-24	R-19-102324	Total/NA	Water	8260C	
480-224872-25	LR-61-102424	Total/NA	Water	8260C	
480-224872-26	LR-51-102424	Total/NA	Water	8260C	
480-224872-28	R-68-102424	Total/NA	Water	8260C	
480-224872-31	R-16-102424	Total/NA	Water	8260C	
480-224872-33	W-66-102424	Total/NA	Water	8260C	
480-224872-34	W-66L-102424	Total/NA	Water	8260C	
480-224872-35	LR-20-102424	Total/NA	Water	8260C	
480-224872-36	W-20-102424	Total/NA	Water	8260C	
480-224872-37	LR-49-102424	Total/NA	Water	8260C	
480-224872-38	W-65-102424	Total/NA	Water	8260C	
480-224872-39	W-23C-102424	Total/NA	Water	8260C	
480-224872-40	W-70L-102424	Total/NA	Water	8260C	
480-224872-41	W-18L-102424	Total/NA	Water	8260C	
480-224872-42	W-18R-102424	Total/NA	Water	8260C	
480-224872-44	R-60-102424	Total/NA	Water	8260C	
480-224872-45	R-60-102424-DUP	Total/NA	Water	8260C	
480-224872-46	R-80-102424	Total/NA	Water	8260C	
480-224872-48	Trip Blank	Total/NA	Water	8260C	
MB 480-730119/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730119/6	Lab Control Sample	Total/NA	Water	8260C	
480-224872-41 MS	W-18L-102424	Total/NA	Water	8260C	
480-224872-41 MSD	W-18L-102424	Total/NA	Water	8260C	

GC/MS VOA

Analysis Batch: 730274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-2 - DL	CBT-102324	Total/NA	Water	8260C	
480-224872-13	DPA-202-102324	Total/NA	Water	8260C	
480-224872-14	LR-66-102324	Total/NA	Water	8260C	
480-224872-15 - DL	OW-3-102324	Total/NA	Water	8260C	
480-224872-16	OW-5-102324	Total/NA	Water	8260C	
480-224872-17	W-67L-102324	Total/NA	Water	8260C	
480-224872-20 - DL	LR-67-102324	Total/NA	Water	8260C	
480-224872-25 - DL	LR-61-102424	Total/NA	Water	8260C	
480-224872-27	LR-50-102424	Total/NA	Water	8260C	
480-224872-29	L-16-102424	Total/NA	Water	8260C	
480-224872-30	W-16L-102424	Total/NA	Water	8260C	
480-224872-32	W-16-102424	Total/NA	Water	8260C	
480-224872-43	LR-62-102424	Total/NA	Water	8260C	
480-224872-47	IR-80-102424	Total/NA	Water	8260C	
MB 480-730274/8	Method Blank	Total/NA	Water	8260C	
LCS 480-730274/6	Lab Control Sample	Total/NA	Water	8260C	
480-224872-14 MS	LR-66-102324	Total/NA	Water	8260C	
480-224872-14 MSD	LR-66-102324	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 730235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total/NA	Water	3510C	
MB 480-730235/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-730235/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-730235/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 730403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total/NA	Water	8270D	730235
MB 480-730235/1-A	Method Blank	Total/NA	Water	8270D	730235
LCS 480-730235/2-A	Lab Control Sample	Total/NA	Water	8270D	730235
LCSD 480-730235/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	730235

Metals

Prep Batch: 730151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total Recoverable	Water	3005A	
MB 480-730151/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-730151/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-224872-3 MS	EFF-102324	Total Recoverable	Water	3005A	
480-224872-3 MSD	EFF-102324	Total Recoverable	Water	3005A	

Analysis Batch: 730400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total Recoverable	Water	6010D	730151
MB 480-730151/1-A	Method Blank	Total Recoverable	Water	6010D	730151
LCS 480-730151/2-A	Lab Control Sample	Total Recoverable	Water	6010D	730151
LRC 480-730400/20	Lab Control Sample		Water	6010D	
480-224872-3 MS	EFF-102324	Total Recoverable	Water	6010D	730151

Metals (Continued)

Analysis Batch: 730400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3 MSD	EFF-102324	Total Recoverable	Water	6010D	730151

Analysis Batch: 730572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total Recoverable	Water	6010D	730151
LCS 480-730151/2-A	Lab Control Sample	Total Recoverable	Water	6010D	730151
LRC 480-730572/17	Lab Control Sample		Water	6010D	
480-224872-3 MS	EFF-102324	Total Recoverable	Water	6010D	730151
480-224872-3 MSD	EFF-102324	Total Recoverable	Water	6010D	730151

General Chemistry

Analysis Batch: 730714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-224872-3	EFF-102324	Total/NA	Water	420.4	
MB 480-730714/16	Method Blank	Total/NA	Water	420.4	
MB 480-730714/46	Method Blank	Total/NA	Water	420.4	
LCS 480-730714/17	Lab Control Sample	Total/NA	Water	420.4	
LCS 480-730714/47	Lab Control Sample	Total/NA	Water	420.4	
480-224840-L-12 MS	Matrix Spike	Total/NA	Water	420.4	
480-224840-L-12 MSD	Matrix Spike Duplicate	Total/NA	Water	420.4	
480-224891-L-2 DU	Duplicate	Total/NA	Water	420.4	

Client Sample ID: INF-102324
Lab Sample ID: 480-224872-1
Date Collected: 10/23/24 10:55
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		40	730076	AXK	EET BUF	10/28/24 13:47

Client Sample ID: CBT-102324
Lab Sample ID: 480-224872-2
Date Collected: 10/23/24 11:00
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 14:08
Total/NA	Analysis	8260C	DL	2	730274	AXK	EET BUF	10/29/24 17:30

Client Sample ID: EFF-102324
Lab Sample ID: 480-224872-3
Date Collected: 10/23/24 11:05
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 14:30
Total/NA	Prep	3510C			730235	JMP	EET BUF	10/29/24 09:26
Total/NA	Analysis	8270D		1	730403	JMM	EET BUF	10/30/24 14:24
Total Recoverable	Prep	3005A			730151	EMO	EET BUF	10/29/24 08:45
Total Recoverable	Analysis	6010D		1	730572	BMB	EET BUF	10/30/24 15:38
Total Recoverable	Prep	3005A			730151	EMO	EET BUF	10/29/24 08:45
Total Recoverable	Analysis	6010D		1	730400	ESB	EET BUF	10/29/24 17:01
Total/NA	Analysis	420.4		1	730714	CLT	EET BUF	10/31/24 10:31

Client Sample ID: EW-1R-102324
Lab Sample ID: 480-224872-4
Date Collected: 10/23/24 11:15
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1000	730076	AXK	EET BUF	10/28/24 14:52

Client Sample ID: EW-2-102324
Lab Sample ID: 480-224872-5
Date Collected: 10/23/24 11:20
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 15:16

Client Sample ID: EW-2-102324-DUP
Lab Sample ID: 480-224872-6
Date Collected: 10/23/24 11:20
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 15:38

Client Sample ID: EW-3-102324
Lab Sample ID: 480-224872-7
Date Collected: 10/23/24 11:25
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	730076	AXK	EET BUF	10/28/24 16:00

Client Sample ID: EW-3-102324-DUP
Lab Sample ID: 480-224872-8
Date Collected: 10/23/24 11:25
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		50	730076	AXK	EET BUF	10/28/24 16:22

Client Sample ID: EW-4-102324
Lab Sample ID: 480-224872-9
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 16:44

Client Sample ID: EW-5-102324
Lab Sample ID: 480-224872-10
Date Collected: 10/23/24 11:30
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	730076	AXK	EET BUF	10/28/24 17:06

Client Sample ID: EW-6-102324
Lab Sample ID: 480-224872-11
Date Collected: 10/23/24 11:35
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	730076	AXK	EET BUF	10/28/24 17:28

Client Sample ID: EW-7-102324
Lab Sample ID: 480-224872-12
Date Collected: 10/23/24 11:45
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	730076	AXK	EET BUF	10/28/24 17:50

Client Sample ID: DPA-202-102324
Lab Sample ID: 480-224872-13
Date Collected: 10/23/24 11:50
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	730274	AXK	EET BUF	10/29/24 17:52

Client Sample ID: LR-66-102324
Lab Sample ID: 480-224872-14
Date Collected: 10/23/24 11:55
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		40	730274	AXK	EET BUF	10/29/24 18:14

Client Sample ID: OW-3-102324
Lab Sample ID: 480-224872-15
Date Collected: 10/23/24 12:00
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	730076	AXK	EET BUF	10/28/24 18:57
Total/NA	Analysis	8260C	DL	2000	730274	AXK	EET BUF	10/29/24 18:37

Client Sample ID: OW-5-102324
Lab Sample ID: 480-224872-16
Date Collected: 10/23/24 13:50
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	730274	AXK	EET BUF	10/29/24 18:59

Client Sample ID: W-67L-102324
Lab Sample ID: 480-224872-17
Date Collected: 10/23/24 14:06
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 19:21

Client Sample ID: R-67-102324
Lab Sample ID: 480-224872-18
Date Collected: 10/23/24 14:14
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1000	730076	AXK	EET BUF	10/28/24 20:03

Client Sample ID: W-67-102324
Lab Sample ID: 480-224872-19
Date Collected: 10/23/24 14:23
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		40	730076	AXK	EET BUF	10/28/24 20:25

Client Sample ID: LR-67-102324
Lab Sample ID: 480-224872-20
Date Collected: 10/23/24 14:35
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		200	730076	AXK	EET BUF	10/28/24 20:47
Total/NA	Analysis	8260C	DL	800	730274	AXK	EET BUF	10/29/24 19:43

Client Sample ID: LR-48-102324
Lab Sample ID: 480-224872-21
Date Collected: 10/23/24 14:51
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 21:09

Client Sample ID: R-48-102324
Lab Sample ID: 480-224872-22
Date Collected: 10/23/24 15:02
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 21:31

Client Sample ID: W-19B-102324
Lab Sample ID: 480-224872-23
Date Collected: 10/23/24 15:29
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730076	AXK	EET BUF	10/28/24 21:53

Client Sample ID: R-19-102324
Lab Sample ID: 480-224872-24
Date Collected: 10/23/24 15:37
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	730119	AXK	EET BUF	10/29/24 02:41

Client Sample ID: LR-61-102424
Lab Sample ID: 480-224872-25
Date Collected: 10/24/24 08:54
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		20	730119	AXK	EET BUF	10/29/24 03:03
Total/NA	Analysis	8260C	DL	80	730274	AXK	EET BUF	10/29/24 20:05

Client Sample ID: LR-51-102424
Lab Sample ID: 480-224872-26
Date Collected: 10/24/24 09:26
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 03:25

Client Sample ID: LR-50-102424
Lab Sample ID: 480-224872-27
Date Collected: 10/24/24 09:41
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 20:27

Client Sample ID: R-68-102424
Lab Sample ID: 480-224872-28
Date Collected: 10/24/24 10:06
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10000	730119	AXK	EET BUF	10/29/24 04:10

Client Sample ID: L-16-102424
Lab Sample ID: 480-224872-29
Date Collected: 10/24/24 10:40
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 20:49

Client Sample ID: W-16L-102424
Lab Sample ID: 480-224872-30
Date Collected: 10/24/24 10:55
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 21:11

Client Sample ID: R-16-102424
Lab Sample ID: 480-224872-31
Date Collected: 10/24/24 11:07
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		20	730119	AXK	EET BUF	10/29/24 05:16

Client Sample ID: W-16-102424
Lab Sample ID: 480-224872-32
Date Collected: 10/24/24 11:22
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 21:33

Client Sample ID: W-66-102424
Lab Sample ID: 480-224872-33
Date Collected: 10/24/24 11:37
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 06:00

Client Sample ID: W-66L-102424
Lab Sample ID: 480-224872-34
Date Collected: 10/24/24 12:00
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 06:22

Client Sample ID: LR-20-102424
Lab Sample ID: 480-224872-35
Date Collected: 10/24/24 13:30
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 06:45

Client Sample ID: W-20-102424
Lab Sample ID: 480-224872-36
Date Collected: 10/24/24 13:35
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	730119	AXK	EET BUF	10/29/24 07:07

Client Sample ID: LR-49-102424
Lab Sample ID: 480-224872-37
Date Collected: 10/24/24 13:46
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 07:29

Client Sample ID: W-65-102424
Lab Sample ID: 480-224872-38
Date Collected: 10/24/24 14:00
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 07:51

Client Sample ID: W-23C-102424
Lab Sample ID: 480-224872-39
Date Collected: 10/24/24 14:13
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 08:13

Client Sample ID: W-70L-102424
Lab Sample ID: 480-224872-40
Date Collected: 10/24/24 14:25
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		2	730119	AXK	EET BUF	10/29/24 08:35

Client Sample ID: W-18L-102424
Lab Sample ID: 480-224872-41
Date Collected: 10/24/24 14:45
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		40	730119	AXK	EET BUF	10/29/24 08:58

Client Sample ID: W-18R-102424
Lab Sample ID: 480-224872-42
Date Collected: 10/24/24 15:15
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		800	730119	AXK	EET BUF	10/29/24 09:20

Client Sample ID: LR-62-102424
Lab Sample ID: 480-224872-43
Date Collected: 10/24/24 15:30
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730274	AXK	EET BUF	10/29/24 21:55

Client Sample ID: R-60-102424
Lab Sample ID: 480-224872-44
Date Collected: 10/24/24 15:53
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 10:04

Client Sample ID: R-60-102424-DUP
Lab Sample ID: 480-224872-45
Date Collected: 10/24/24 15:53
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 10:26

Client Sample ID: R-80-102424
Lab Sample ID: 480-224872-46
Date Collected: 10/24/24 16:07
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	730119	AXK	EET BUF	10/29/24 10:48

Client Sample ID: IR-80-102424
Lab Sample ID: 480-224872-47
Date Collected: 10/24/24 16:18
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		4	730274	AXK	EET BUF	10/29/24 22:18

Client Sample ID: Trip Blank
Lab Sample ID: 480-224872-48
Date Collected: 10/22/24 00:00
Matrix: Water
Date Received: 10/25/24 11:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	730119	AXK	EET BUF	10/29/24 11:33

Laboratory References:

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

Accreditation/Certification Summary

Client: Langan Engineering and Environmental Services LLC
Job ID: 480-224872-1
Project/Site: SMC Lewiston - Annual

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.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
2 MTP 2019_00064	11/11/24	09/11/24	Methanol, Lot EC126-US	10 mL	2-MTP_00069	1 mL	2-Methylthiophene	100 ug/mL
.2-MTP_00069	09/29/25	Absolute Standards, Lot 092920			(Purchased Reagent)		2-Methylthiophene	1000 ug/mL
3 MTP 2019_00064	11/11/24	09/11/24	Methanol, Lot EC126-US	10 mL	3-MTP_00066	1 mL	3-Methylthiophene	100 ug/mL
.3-MTP_00066	09/29/25	Absolute Standards, Lot 092920			(Purchased Reagent)		3-Methylthiophene	1000 ug/mL
3_MCP_Add_WRK_00456	11/09/24	09/09/24	Methanol, Lot EF282US	1 mL	3_MCP_Add_00476	1 mL	Halothane	100 ug/mL
.3_MCP_Add_00476	03/09/25	Absolute, Lot 090823			(Purchased Reagent)		Halothane	100 ug/mL
8260 CORP mix_00259	11/17/24	09/17/24	Methanol, Lot 22C2362001	20 mL	2-CEVE_00231	800 uL	2-Chloroethyl vinyl ether	100 ug/mL
					Acrolein Mix_00504	500 uL	Acrolein	500 ug/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	1,1,1,2-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-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
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	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
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Ethylene Dibromide	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					Vinyl Acetate_00359	800 uL	Vinyl acetate	200 ug/mL
.2-CEVE_00231	02/28/27		Restek, Lot A0208368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.Acrolein Mix_00504	09/30/25		Restek, Lot A0209476		(Purchased Reagent)		Acrolein	20000 ug/mL
.Ketones_00225	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_00233	04/30/26		Restek, Lot A0203458		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							3-Chloro-1-propene	2500 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	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
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Ethylene Dibromide	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00359	09/30/25		Restek, Lot A0209567		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
ADD CORP mix_00149	10/19/24	08/19/24	Methanol, Lot EA226-US	20 mL	1,4-Difluorob_00101	800 uL	1,4-Difluorobenzene	100 ug/mL
					ADD STD 4_00097	800 uL	Pentachloroethane	100 ug/mL
					ADD STD 5_00111	800 uL	2-Methylnaphthalene	100 ug/mL
					ADD STD 6_00122	800 uL	1,2,3-Trimethylbenzene	100 ug/mL
							1,3,5-Trichlorobenzene	100 ug/mL
							1-Chlorohexane	100 ug/mL
							2-Chloro-1,3-butadiene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Benzyl chloride	100 ug/mL
							Isooctane	100 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					ADD STD 7_00145	800 uL	Ethyl acetate	200 ug/mL
							Ethyl acrylate	100 ug/mL
							Methyl methacrylate	200 ug/mL
							n-Butyl acetate	100 ug/mL
					BAdd-2A_00175	1 mL	1,1-Dimethoxyethane	500 ug/mL
							2-Chlorobenzotrifluoride	100 ug/mL
							3-Chlorobenzotrifluoride	100 ug/mL
							3-Chlorotoluene	100 ug/mL
							4-Chlorobenzotrifluoride	100 ug/mL
							Chlorodifluoromethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dicyclopentadiene	100 ug/mL
					BAdd-2B_00187	1 mL	Epichlorohydrin	1000 ug/mL
					Cyclohexanone_00117	800 uL	Cyclohexanone	1000 ug/mL
					Ethanol_00084	800 uL	Ethanol	4000 ug/mL
					Polar Adds_00143	800 uL	Acetonitrile	1000 ug/mL
							Isopropyl ether	100 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
							Tert-amyl methyl ether	100 ug/mL
							Tert-butyl ethyl ether	100 ug/mL
.1,4-Difluorob_00101	05/31/27		RESTEK, Lot A0185299		(Purchased Reagent)		1,4-Difluorobenzene	2500 ug/mL
.ADD STD 4_00097	03/31/29		RESTEK, Lot A0209358		(Purchased Reagent)		Pentachloroethane	2500 ug/mL
.ADD STD 5_00111	01/31/28		RESTEK, Lot A0193889		(Purchased Reagent)		2-Methylnaphthalene	2500 ug/mL
.ADD STD 6_00122	04/30/25		RESTEK, Lot A0203604		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							1-Chlorohexane	2500 ug/mL
							2-Chloro-1,3-butadiene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Benzyl chloride	2500 ug/mL
							Isooctane	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.ADD STD 7_00145	01/31/25		RESTEK, Lot A0200274		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Ethyl acrylate	2500 ug/mL
							Methyl methacrylate	5000 ug/mL
							n-Butyl acetate	2500 ug/mL
.BAdd-2A_00175	06/30/25		Restek, Lot A0205004		(Purchased Reagent)		1,1-Dimethoxyethane	10000 ug/mL
							2-Chlorobenzotrifluoride	2000 ug/mL
							3-Chlorobenzotrifluoride	2000 ug/mL
							3-Chlorotoluene	2000 ug/mL
							4-Chlorobenzotrifluoride	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Dicyclopentadiene	2000 ug/mL
.BAdd-2B_00187	05/31/25		Restek, Lot A0211029		(Purchased Reagent)		Epichlorohydrin	20000 ug/mL
.Cyclohexanone_00117	08/31/25		Restek, Lot A0197009		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.Ethanol_00084	02/28/27		Restek, Lot A0207964		(Purchased Reagent)		Ethanol	100000 ug/mL
.Polar Adds_00143	02/28/25		Restek, Lot A0194786		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							t-Amyl alcohol	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
BFB_WRK_00165							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
BFB_WRK_00166							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
D 8260 IS/SUR_00092	11/13/24	09/13/24	P&T Methanol, Lot EC126-US	20 mL	IS_STK_01791	1 mL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/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
.IS_STK_01791	04/30/29		Restek, Lot A0210835		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 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
D 8260 IS_00024	11/19/24	09/19/24	P&T Methanol, Lot EC126-US	20 mL	IS_STK_01788	1 mL	1,4-Dichlorobenzene-d4	125 ug/mL
							Chlorobenzene-d5	125 ug/mL
							Fluorobenzene (IS)	125 ug/mL
.IS_STK_01788	03/09/25		Restek, Lot A0210835		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
GAS CORP mix_00641	09/24/24	09/17/24	Methanol, Lot EA832US	10 mL	8260/624-Gas_00558	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_00558	03/17/25		Restek, Lot A0211969		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
LRC_00007	11/01/24	10/28/24	1% HNO3, Lot 8053365	50 mL	MEA_As_STK_00009	0.25 mL	Arsenic	5 ug/mL
					MEA_Cr_STK_00011	0.5 mL	Chromium	10 ug/mL
					MEA_Cu_STK_00008	0.4 mL	Copper	8 ug/mL
					MEA_Ni_STK_00008	0.5 mL	Nickel	10 ug/mL
					MEA_PB_STK_00012	2 mL	Lead	40 ug/mL
					MEA_Se_STK_00010	2 mL	Selenium	40 ug/mL
					MEI_Zn_1,000_00014	1 mL	Zinc	20 ug/mL
.MEA_As_STK_00009	06/12/26	CPI International, Lot 1432180			(Purchased Reagent)		Arsenic	1000 ug/mL
.MEA_Cr_STK_00011	11/12/26	CPI International, Lot 1430567			(Purchased Reagent)		Chromium	1000 ug/mL
.MEA_Cu_STK_00008	03/01/25	CPI International, Lot 1259550-25			(Purchased Reagent)		Copper	1000 ug/mL
.MEA_Ni_STK_00008	01/31/26	CPI International, Lot 1399080			(Purchased Reagent)		Nickel	1000 ug/mL
.MEA_PB_STK_00012	12/18/26	CPI International, Lot 1429023			(Purchased Reagent)		Lead	1000 ug/mL
.MEA_Se_STK_00010	10/16/26	CPI International, Lot 1428537			(Purchased Reagent)		Selenium	1000 ug/mL
.MEI_Zn_1,000_00014	03/05/26	CPI International, Lot 1390097			(Purchased Reagent)		Zinc	1000 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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	50 uL	1,1'-Biphenyl	0.5 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzyl alcohol	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	0.5 ug/mL
							2-Fluorobiphenyl	0.5 ug/mL
							2-Fluorophenol (Surr)	0.5 ug/mL
							Nitrobenzene-d5 (Surr)	0.5 ug/mL
							p-Terphenyl-d14 (Surr)	0.5 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	1 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,3,4,6-Tetrachlorophenol	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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 (Surr)	1 ug/mL
							2-Fluorobiphenyl	1 ug/mL
							2-Fluorophenol (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	1 ug/mL
							p-Terphenyl-d14 (Surr)	1 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	100 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							1-Methylnaphthalene	100 ug/mL
							2,2'-oxybis[1-chloropropane]	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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	2 ug/mL
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dinitrobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							1-Methylnaphthalene	2 ug/mL
							2,2'-oxybis[1-chloropropane]	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
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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 (Surr)	2 ug/mL
							2-Fluorobiphenyl	2 ug/mL
							2-Fluorophenol (Surr)	2 ug/mL
							Nitrobenzene-d5 (Surr)	2 ug/mL
							p-Terphenyl-d14 (Surr)	2 ug/mL
							Phenol-d5 (Surr)	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MB_List1_INT_00109	02/25/25	10/09/24	Methylene Chloride, Lot 64180	10 mL	MB_L1S1_STK_00087	1000 uL	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzidine	200 ug/mL
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Benzidine	2000 ug/mL
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.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
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					MB_List1_INT_00109	400 uL	1,1'-Biphenyl	4 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	4 ug/mL
							2-Fluorobiphenyl	4 ug/mL
							2-Fluorophenol (Surr)	4 ug/mL
							Nitrobenzene-d5 (Surr)	4 ug/mL
							p-Terphenyl-d14 (Surr)	4 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	8 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
							2,2'-oxybis[1-chloropropane]	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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Caprolactam	8 ug/mL
							3,3'-Dichlorobenzidine	16 ug/mL
							Benzidine	16 ug/mL
							2,4,6-Tribromophenol (Surr)	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							p-Terphenyl-d14 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MB_L1LVI_WRK_00648	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	120 uL	1,1'-Biphenyl	12 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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 (Surr)	12 ug/mL
							2-Fluorobiphenyl	12 ug/mL
							2-Fluorophenol (Surr)	12 ug/mL
							Nitrobenzene-d5 (Surr)	12 ug/mL
							p-Terphenyl-d14 (Surr)	12 ug/mL
							Phenol-d5 (Surr)	12 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					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	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
							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
							Benzidine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MB_SURR_STK_00072	200 uL	2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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.: 480-224872-1

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
							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
							Benzidine	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MB_SURR_STK_00072	06/03/25		Restek, Lot A0172807		(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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_00649	02/25/25	10/09/24	Methylene Chloride, Lot 64180	1 mL	MB_List1_INT_00109	160 uL	1,1'-Biphenyl	16 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	16 ug/mL
							2-Fluorobiphenyl	16 ug/mL
							2-Fluorophenol (Surr)	16 ug/mL
							Nitrobenzene-d5 (Surr)	16 ug/mL
							p-Terphenyl-d14 (Surr)	16 ug/mL
							Phenol-d5 (Surr)	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	1,1'-Biphenyl	100 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	100 ug/mL
							2-Fluorobiphenyl	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
..MB_L1S1_STK_00087	04/30/25		Restek, Lot A0213043		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	1,3-Dinitrobenzene	4 ug/mL
							2,4-Dichlorophenol	4 ug/mL
							2,4-Dinitrophenol	8 ug/mL
							2,4-Dinitrotoluene	4 ug/mL
							2-Chlorophenol	4 ug/mL
							2-Methylnaphthalene	4 ug/mL
							2-Methylphenol	4 ug/mL
							3-Methylphenol	2 ug/mL
							4,6-Dinitro-2-methylphenol	8 ug/mL
							4-Chloroaniline	4 ug/mL
							4-Methylphenol	4 ug/mL
							4-Nitrophenol	8 ug/mL
							Acenaphthene	4 ug/mL
							Acenaphthylene	4 ug/mL
							Acetophenone	4 ug/mL
							Fluoranthene	4 ug/mL
							Hexachloroethane	4 ug/mL
							Naphthalene	4 ug/mL
							Pentachlorophenol	8 ug/mL
							Pyrene	4 ug/mL
							Pyridine	8 ug/mL
					MB_L1S10_SS_00035	120 uL	Benzoic acid	24 ug/mL
							Indene	24 ug/mL
					MB_L1S11_SS_00039	20 uL	Atrazine	4 ug/mL
							Benzaldehyde	4 ug/mL
.MB_L1S1_SS_00045	04/30/25		Restek, Lot A0212976		(Purchased Reagent)		1,3-Dinitrobenzene	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							3-Methylphenol	500 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Hexachloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
.MB_L1S10_SS_00035	01/31/25	Restek, Lot A0199695			(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
.MB_L1S11_SS_00039	10/10/25	Restek, Lot A0216037			(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	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
MED_03_Ag_00213	09/16/26	10/10/24	1% HNO3, Lot 1026960-69	200 mL	MEI_Ag_1,000_00016	2 mL	Ag	10 ug/mL
.MEI_Ag_1,000_00016	09/16/26	Agilent Technologies, Lot 1436833			(Purchased Reagent)		Ag	1000 ug/mL
MEI_10_CCVL_00530	11/01/24	10/21/24	1% HNO3, Lot 8053365	2000 mL	MEI_CRI STOCK_00077	20 mL	Arsenic	0.015 mg/L
							Chromium	0.004 mg/L
							Copper	0.01 mg/L
							Nickel	0.01 mg/L
							Lead	0.01 mg/L
							Selenium	0.025 mg/L
							Zinc	0.01 mg/L
.MEI_CRI STOCK_00077	11/01/24	09/17/24	6%HNO3 5%HCL, Lot 8037073	1000 mL	MEA_As_STK_00009	1.5 mL	Arsenic	1.5 ug/mL
					MEA_Cr_STK_00011	0.4 mL	Chromium	0.4 ug/mL
					MEA_Cu_STK_00010	1 mL	Copper	1 ug/mL
					MEA_Ni_STK_00008	1 mL	Nickel	1 ug/mL
					MEA_PB_STK_00012	1 mL	Lead	1 ug/mL
					MEA_Se_STK_00010	2.5 mL	Selenium	2.5 ug/mL
					MEI_Zn_1,000_00012	1 mL	Zinc	1 ug/mL
..MEA_As_STK_00009	06/12/26	CPI International, Lot 1432180			(Purchased Reagent)		Arsenic	1000 ug/mL
..MEA_Cr_STK_00011	11/12/26	CPI International, Lot 1430567			(Purchased Reagent)		Chromium	1000 ug/mL
..MEA_Cu_STK_00010	11/14/26	CPI International, Lot 1427285			(Purchased Reagent)		Copper	1000 ug/mL
..MEA_Ni_STK_00008	01/31/26	CPI International, Lot 1399080			(Purchased Reagent)		Nickel	1000 ug/mL
..MEA_PB_STK_00012	12/18/26	CPI International, Lot 1429023			(Purchased Reagent)		Lead	1000 ug/mL
..MEA_Se_STK_00010	10/16/26	CPI International, Lot 1428537			(Purchased Reagent)		Selenium	1000 ug/mL
..MEI_Zn_1,000_00012	01/01/25	CPI International, Lot 1216101-73			(Purchased Reagent)		Zinc	1000 ug/mL
MEI_MSS_ICSA_00068	12/01/26	10/31/24	1% HNO3, Lot 8053365	500 mL	MEI_Adj_A_STK_00012	50 mL	Al	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ba	0.012 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.MEI_Adj_A_STK_00012	11/01/24	CPI International, Lot 1437074			(Purchased Reagent)		Al	5000 ug/mL
							Ba	0.12 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
MEI_MSS_ICSA_00073	12/01/26	10/31/24	1% HNO3, Lot 8053365	500 mL	MEI_Adj_A_STK_00012	50 mL	Al	500 ug/mL
							Ba	0.012 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL
							Mg	500 ug/mL
.MEI_Adj_A_STK_00012	11/01/24	CPI International, Lot 1437074			(Purchased Reagent)		Al	5000 ug/mL
							Ba	0.12 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
MEI_MSS_ICSAB_00068	11/01/24	10/07/24	1% HNO3, Lot 8053365	500 mL	MEI_ABpt1_STK_00006	2.5 mL	Mo	0.5 ug/mL
							Sb	0.5 ug/mL
							Si	5 ug/mL
							Sn	0.5 ug/mL
							Ti	0.5 ug/mL
					MEI_ABpt2_STK_00005	2.5 mL	Ag	0.5 ug/mL
							Arsenic	0.5 ug/mL
							B	5 ug/mL
							Ba	0.5125 ug/mL
							Be	0.2501 ug/mL
							Cd	0.5 ug/mL
							Chromium	0.4999 ug/mL
							Co	0.5 ug/mL
							Copper	0.5 ug/mL
							K	5 ug/mL
							Lead	0.5 ug/mL
							Mn	0.5005 ug/mL
							Na	5 ug/mL
							Nickel	0.5005 ug/mL
							Selenium	0.5 ug/mL
							Sr	0.5 ug/mL
							Tl	0.5 ug/mL
							V	0.5 ug/mL
							Zinc	0.5005 ug/mL
					MEI_Adj_A_STK_00012	50 mL	Al	500 ug/mL
							Ba	0.5125 ug/mL
							Ca	500 ug/mL
							Fe	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Mg	500 ug/mL
.MEI_ABpt1_STK_00006	09/30/25	CPI International, Lot 1399525			(Purchased Reagent)		Mo	100 ug/mL
							Sb	100 ug/mL
							Si	1000 ug/mL
							Sn	100 ug/mL
							Ti	100 ug/mL
.MEI_ABpt2_STK_00005	10/21/25	CPI International, Lot 1333445-1			(Purchased Reagent)		Ag	100 ug/mL
							Arsenic	100 ug/mL
							B	1000 ug/mL
							Ba	100.1 ug/mL
							Be	50.02 ug/mL
							Cd	100 ug/mL
							Chromium	99.98 ug/mL
							Co	100 ug/mL
							Copper	100 ug/mL
							K	1000 ug/mL
							Lead	100 ug/mL
							Mn	100.1 ug/mL
							Na	1000 ug/mL
							Nickel	100.1 ug/mL
							Selenium	100 ug/mL
							Sr	100 ug/mL
							Tl	100 ug/mL
							V	100 ug/mL
							Zinc	100.1 ug/mL
.MEI_Adj_A_STK_00012	11/01/24	CPI International, Lot 1437074			(Purchased Reagent)		Al	5000 ug/mL
							Ba	0.12 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
MEI_MSS_ICV_00174	11/01/24	10/21/24	1% HNO3, Lot 8053365	200 mL	ME_TA_CAL1_00027	1.5 mL	Arsenic	0.7515 mg/L
							Chromium	0.75075 mg/L
							Copper	0.75075 mg/L
							Lead	0.75 mg/L
							Nickel	0.75 mg/L
							Selenium	0.749775 mg/L
					MEI_Zn_1,000S_00003	0.15 mL	Zinc	0.75 mg/L
.ME_TA_CAL1_00027	05/27/25	CPI International, Lot 1364863			(Purchased Reagent)		Arsenic	100.2 mg/L
							Chromium	100.1 mg/L
							Copper	100.1 mg/L
							Lead	100 mg/L
							Nickel	100 mg/L
							Selenium	99.97 mg/L
.MEI_Zn_1,000S_00003	03/05/26	CPI International, Lot 1459124			(Purchased Reagent)		Zinc	1000 ug/mL
MEI_MSS_STD2_00353	11/02/24	10/21/24	1% HNO3, Lot 8053365	1000 mL	ME_TA_CAL1_00024	10 mL	Arsenic	1.002 ug/mL
							Chromium	1.001 ug/mL
							Copper	1.001 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Lead	1 ug/mL
							Nickel	1 ug/mL
							Selenium	0.9997 ug/mL
					MEI_Zn_1,000_00013	1 mL	Zinc	1 ug/mL
.ME_TA_CAL1_00024	02/11/26	CPI International, Lot 1437070			(Purchased Reagent)		Arsenic	100.2 mg/L
							Chromium	100.1 mg/L
							Copper	100.1 mg/L
							Lead	100 mg/L
							Nickel	100 mg/L
							Selenium	99.97 mg/L
.MEI_Zn_1,000_00013	03/05/26	CPI International, Lot 1398666			(Purchased Reagent)		Zinc	1000 ug/mL
MEP_Mix4_00012	03/05/26	10/04/24	ELGA Water, Lot none	200 mL	me-sb-stk1000_00006	20 mL	Sb	100 mg/L
					MEA_Al_STK_00015	0.4 mL	Al	20 mg/L
					MEA_Fe_STK_00016	0.4 mL	Fe	20 mg/L
					MEI_B_1,000_00015	20 mL	B	100 mg/L
					MEI_Zn_1,000_00014	20 mL	Zinc	100 mg/L
.me-sb-stk1000_00006	12/24/26	cpi international, Lot N18I027			(Purchased Reagent)		Sb	1000 ug/mL
.MEA_Al_STK_00015	07/09/26	CPI, Lot ALM112021A1			(Purchased Reagent)		Al	10000 ug/mL
.MEA_Fe_STK_00016	03/29/26	CPI International, Lot 1421665			(Purchased Reagent)		Fe	10000 ug/mL
.MEI_B_1,000_00015	01/31/27	CPI International, Lot 1450184			(Purchased Reagent)		B	1000 ug/mL
.MEI_Zn_1,000_00014	03/05/26	CPI International, Lot 1390097			(Purchased Reagent)		Zinc	1000 ug/mL
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
							1,1'-Biphenyl	8 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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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	1,1'-Biphenyl	40 ug/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
							2,2'-oxybis[1-chloropropane]	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
							2,6-Dichlorophenol	40 ug/mL
							2,6-Dinitrotoluene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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
							Hexachlorobenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Hexachlorocyclopentadiene	40 ug/mL
							Hexachloroethane	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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)		1,1'-Biphenyl	1000 ug/mL
							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
							2,2'-oxybis[1-chloropropane]	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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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 (Surr)	8 ug/mL
							2-Fluorobiphenyl	8 ug/mL
							2-Fluorophenol (Surr)	8 ug/mL
							Nitrobenzene-d5 (Surr)	8 ug/mL
							p-Terphenyl-d14 (Surr)	8 ug/mL
							Phenol-d5 (Surr)	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 (Surr)	5000 ug/mL
							2-Fluorobiphenyl	5000 ug/mL
							2-Fluorophenol (Surr)	5000 ug/mL
							Nitrobenzene-d5 (Surr)	5000 ug/mL
							p-Terphenyl-d14 (Surr)	5000 ug/mL
							Phenol-d5 (Surr)	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
Phenol ICV_00781	11/01/24	10/31/24	DI Water, Lot na	100 mL	Phenol_2lot_00223	1 mL	Phenolics, Total Recoverable	0.1 mg/L
.Phenol_2lot_00223	11/05/24	10/29/24	DI Water, Lot na	100 mL	WC_Phenol_S_00046	1 mL	Phenolics, Total Recoverable	10 ppm
..WC_Phenol_S_00046	12/31/25	ricca, Lot 4404H12			(Purchased Reagent)		Phenolics, Total Recoverable	1000 mg/L
Spike Mx 1_00006	12/10/25	CPI International, Lot 1421974			(Purchased Reagent)		Arsenic	200 ug/mL
							Ba	200 ug/mL
							Be	100 ug/mL
							Cd	100 ug/mL
							Chromium	100 ug/mL
							Co	100 ug/mL
							Copper	100 ug/mL
							Lead	100 ug/mL
							Li	100 ug/mL
							Mn	100 ug/mL
							Mo	100 ug/mL
							Nickel	100 ug/mL
							Selenium	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Si	200 ug/mL
							SiO2	427.8 ug/mL
							Sn	200 ug/mL
							Sr	100 ug/mL
							Ti	100 ug/mL
							Tl	200 ug/mL
							V	100 ug/mL
Spike Mx 2_00005	11/13/25	CPI International, Lot 1466116			(Purchased Reagent)		Al	1000 ug/mL
							Ca	5000 ug/mL
							Fe	1000 ug/mL
							K	5000 ug/mL
							Mg	5000 ug/mL
							Na	5000 ug/mL
Spike Mx 3_00005	02/28/26	CPI International, Lot 1489780			(Purchased Reagent)		P	2001 ug/mL
							Sulfur	999.9 ug/mL
							U	200.1 ug/mL
							W	99.99 ug/mL
SS 8260 CORP_00116	10/12/24	08/12/24	Methanol, Lot EH471US	20 mL	SS Acrolein_00383	500 uL	Acrolein	500 mg/L
					SS Vinyl Acet_00294	800 uL	Vinyl acetate	200 mg/L
					SS_Ketones_00099	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_00132	800 uL	1,4-Dioxane	2000 mg/L
							2-Methyl-2-propanol	1000 mg/L
							Acrylonitrile	1000 mg/L
							Benzene	100 mg/L
							Carbon disulfide	100 mg/L
							Carbon tetrachloride	100 mg/L
							Chlorobenzene	100 mg/L
							Chloroform	100 mg/L
							Isobutyl alcohol	2500 mg/L
							Methylene Chloride	100 mg/L
							Tetrachloroethene	100 mg/L
							Toluene	100 mg/L
							Trichloroethene	100 mg/L
.SS Acrolein_00383	09/30/25	Restek, Lot A0209508			(Purchased Reagent)		Acrolein	20000 ug/mL
.SS Vinyl Acet_00294	11/30/24	Restek, Lot A0197959			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.SS_Ketones_00099	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_00132	08/31/25	Restek, Lot A0195252			(Purchased Reagent)		1,4-Dioxane	50000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Acrylonitrile	25000 ug/mL
							Benzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chloroform	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methylene Chloride	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							Trichloroethene	2500 ug/mL
SS ADD CORP_00093	09/19/24	07/19/24	Methanol, Lot EB199US	20 mL	SS 1,4-Difluo_00076	800 uL	1,4-Difluorobenzene	100 ug/mL
					SS ADD Std6_00112	800 uL	1,3,5-Trichlorobenzene	100 ug/mL
							2-Nitropropane	200 ug/mL
							Isopropyl alcohol	1000 ug/mL
							Methacrylonitrile	1000 ug/mL
							n-Butanol	2500 ug/mL
					SS ADD Std7_00107	800 uL	Ethyl acetate	200 ug/mL
							Methyl methacrylate	200 ug/mL
					SS BAdd-2A_00143	1 mL	1,1-Dimethoxyethane	500 ug/mL
					SS BAdd-2B_00144	1 mL	Epichlorohydrin	1000 ug/mL
					SS Ethanol_00055	800 uL	Ethanol	4000 ug/mL
					SS_Cyclohex_00081	800 uL	Cyclohexanone	1000 ug/mL
					SS_Polar Adds_00108	800 uL	Acetonitrile	1000 ug/mL
							Propionitrile	1000 ug/mL
							t-Amyl alcohol	1000 ug/mL
.SS 1,4-Difluo_00076	06/30/25		RESTEK, Lot A0161293		(Purchased Reagent)		1,4-Difluorobenzene	2500 ug/mL
.SS ADD Std6_00112	11/30/25		RESTEK, Lot A0211488		(Purchased Reagent)		1,3,5-Trichlorobenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.SS ADD Std7_00107	11/30/25		RESTEK, Lot A0211055		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.SS BAdd-2A_00143	06/30/25		Restek, Lot A0205976		(Purchased Reagent)		1,1-Dimethoxyethane	10000 ug/mL
.SS BAdd-2B_00144	12/31/24		Restek, Lot A0204945		(Purchased Reagent)		Epichlorohydrin	20000 ug/mL
.SS Ethanol_00055	01/31/26		Restek, Lot A0193775		(Purchased Reagent)		Ethanol	100000 ug/mL
.SS_Cyclohex_00081	03/31/25		Restek, Lot A0182847		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.SS_Polar Adds_00108	02/28/25		Restek, Lot A0195116		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
							t-Amyl alcohol	25000 ug/mL
WC_Phenol_CCV_00926	11/01/24	10/31/24	DI Water, Lot na	250 mL	WC_Phenol10W3_01428	2.5 mL	Phenolics, Total Recoverable	0.1 mg/L
.WC_Phenol10W3_01428	11/05/24	10/29/24	Di Water, Lot NA	100 mL	WC_Phenol_S_00039	1 mL	Phenolics, Total Recoverable	10 mg/L
..WC_Phenol_S_00039	06/30/25		ricca, Lot 4306L74		(Purchased Reagent)		Phenolics, Total Recoverable	1000 mg/L
WC_Phenol10W3_01428	11/05/24	10/29/24	Di Water, Lot NA	100 mL	WC_Phenol_S_00039	1 mL	Phenolics, Total Recoverable	10 mg/L
.WC_Phenol_S_00039	06/30/25		ricca, Lot 4306L74		(Purchased Reagent)		Phenolics, Total Recoverable	1000 mg/L

Reagent

1,4-Difluorob_00101

1,4-Difluorobenzene 101-103

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 #3233.01

ilac-MRA

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3232.02

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. : 570810 **Lot No.:** A0185299

Description : 8260 List 3 / Std #2 1,4-Difluorobenzene

8260 List 3 / Std #2 1,4-Difluorobenzene 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Difluorobenzene **CAS #** 540-36-3 **Purity** 99% (Lot MKBN8571V)	2,505.0 µg/mL	+/- 23.2952 µg/mL +/- 141.6247 µg/mL +/- 144.8845 µg/mL	Gravimetric Unstressed Stressed

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

01-Aug-2020 rev.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

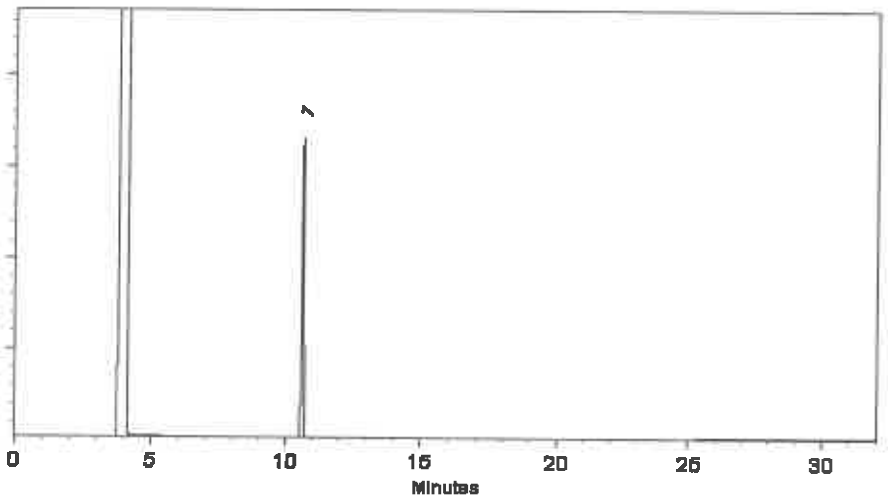
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Sam Moodler - Operations Tech I

Date Mixed: 15-May-2022 Balance: B707717271

Marline Cowan - Operations Tech I

Date Passed: 17-May-2022

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 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

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.)

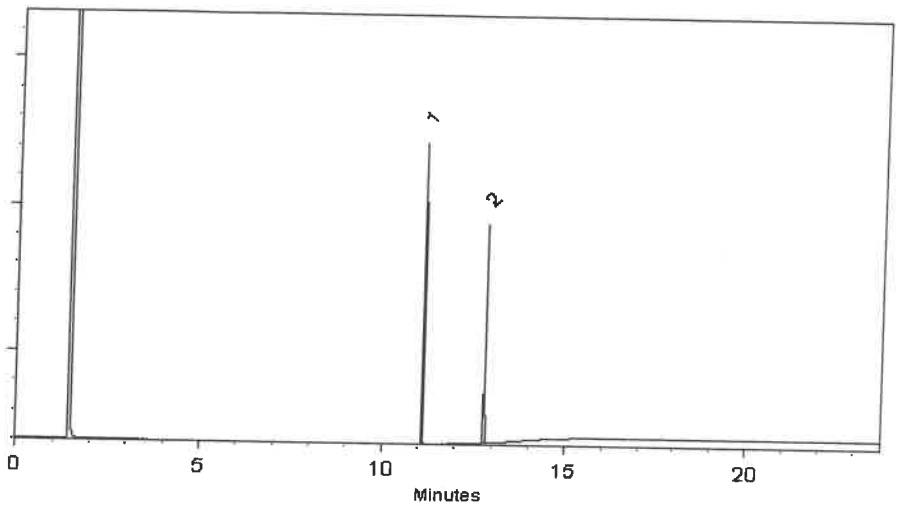
Inj. Temp:
250°C

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

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. : 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.)

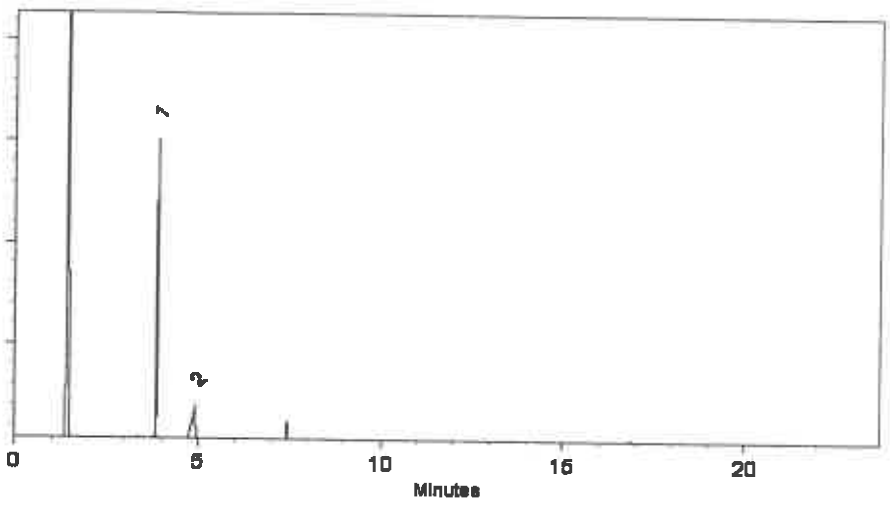
Inj. Temp:
250°C

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 List1/10_00566

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. : 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.)

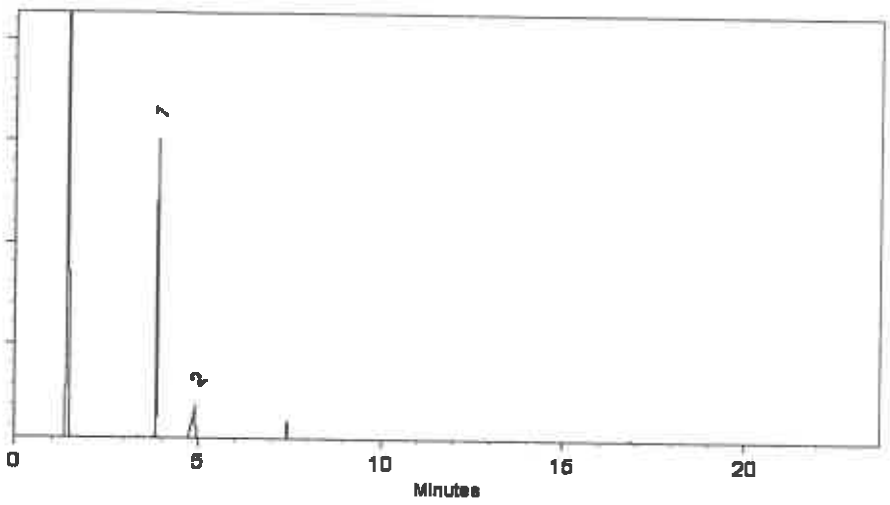
Inj. Temp:
250°C

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 List1/10_00567

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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.)

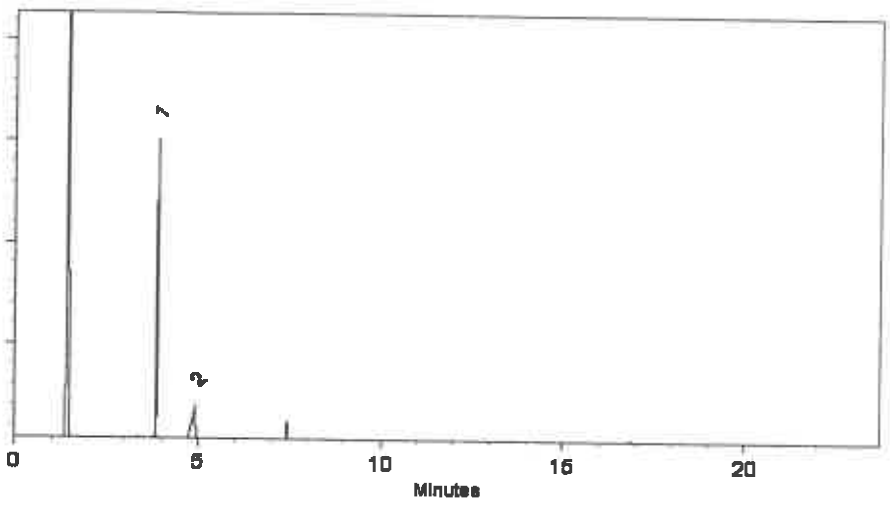
Inj. Temp:
250°C

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 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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CERTIFIED REFERENCE MATERIAL

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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.)

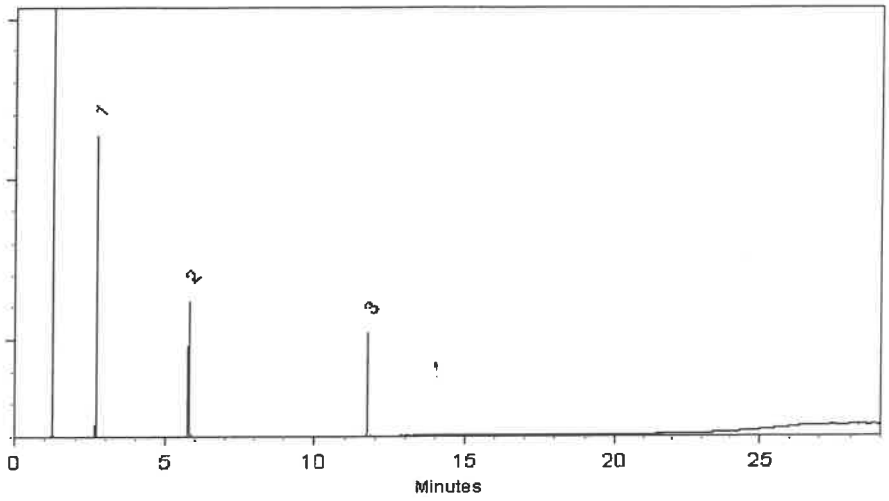
Inj. Temp:
250°C

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

ADD STD 4_00097

List 2/Std #4 Pentachloroethane

RESTEK

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CERTIFIED REFERENCE MATERIAL

097-102

Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3232.04

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3232.03

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. : 570806 **Lot No.:** A0209358

Description : 8260 List 2 / Std #4 Pentachloroethane

8260 List 2 / Std #4 Pentachloroethane 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2029 **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	Pentachloroethane	76-01-7	13550700	97%	2,502.6 µg/mL	+/- 140.5994

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

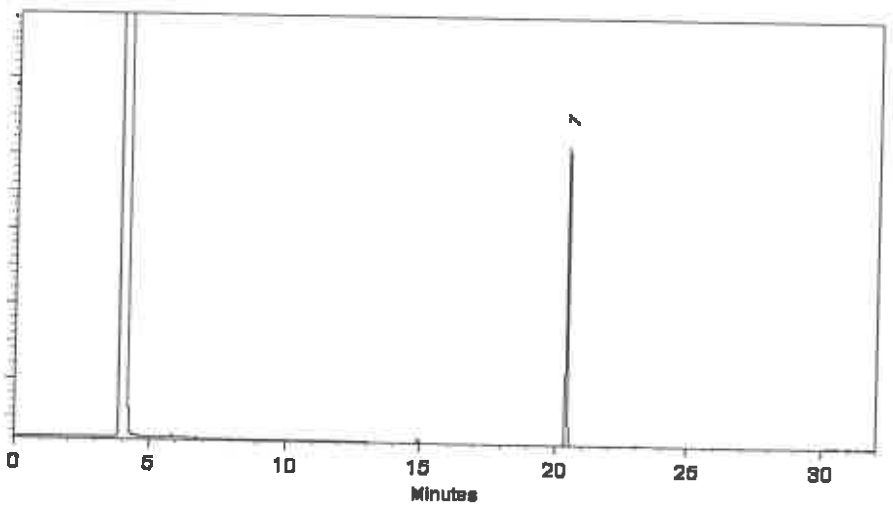
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Kylie Bregue - Operations Technician II

Jennifer Polino - Operations Tech III - ARM QC

Date Mixed: 22-Mar-2024 **Balance Serial #** B251644995

Date Passed: 26-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

ADD STD 5_00111

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Std 5 102-111

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. : 570807 **Lot No.:** A0193889

Description : 8260 List 2 / Std #5 Methylnaphthalenes

8260 List 2 / Std #5 Methylnaphthalenes 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 31, 2028 **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	2-Methylnaphthalene	91-57-6	STBK0259	96%	2,500.3 µg/mL	+/- 140.4713
2	1-Methylnaphthalene	90-12-0	5234.00-3	99%	2,500.0 µg/mL	+/- 140.4533

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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.)

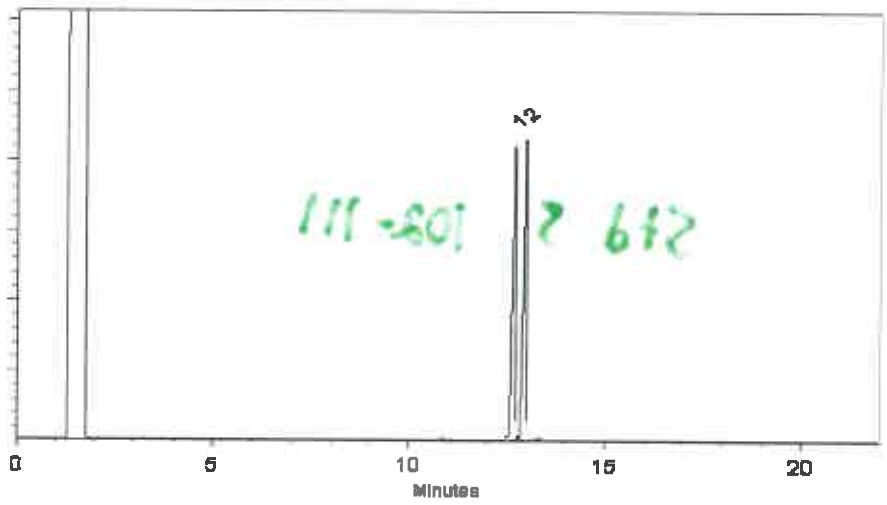
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
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.

Josh McClenkey - Operations Technician I

Date Mixed: 24-Jan-2023 Balance Serial # B707717271

Marina Cowan – Operations Tech II ARM QC

Date Passed: 26-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

ADD STD 6_00122

List 2 /std 6 122-131

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Catalog No. : 570808 **Lot No.:** A0203604

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 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	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	SHBQ4760	99%	25,118.5 µg/mL	+/- 410.7356
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	230928JLM	99%	2,517.5 µg/mL	+/- 41.1780
3	Methacrylonitrile	126-98-7	1012014	99%	25,073.0 µg/mL	+/- 409.9916
4	2,2,4-Trimethylpentane (isooctane)	540-84-1	SHBP5702	99%	2,521.5 µg/mL	+/- 41.2434
5	1-Butanol	71-36-3	101601K21K	99%	62,717.5 µg/mL	+/- 1,025.5446
6	2-Nitropropane	79-46-9	BCCB9352	97%	5,037.2 µg/mL	+/- 82.3680
7	1-Chlorohexane	544-10-5	BCBS3368V	99%	2,509.5 µg/mL	+/- 41.0471
8	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	2,524.0 µg/mL	+/- 41.2841
9	Benzyl chloride	100-44-7	SHBH2102V	99%	2,511.5 µg/mL	+/- 41.0798
10	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	2,515.0 µg/mL	+/- 41.1371

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

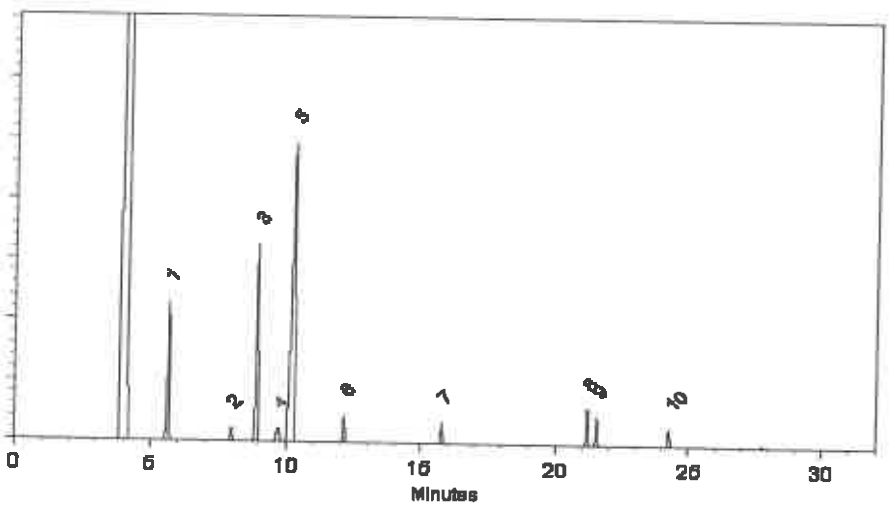
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Sam Moodler - Operations Tech I

Date Mixed: 25-Oct-2023 **Balance Serial #** B251644995

Dillan Murphy - Operations Technician I

Date Passed: 27-Oct-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

Cyclohexanone_00117

Cyclohexanone 117-122

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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. : 569727 **Lot No.:** A0197009

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

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

Expiration Date : April 30, 2026 **Storage:** 10°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	Cyclohexanone	108-94-1	MKCC7732	99%	25,006.5 µg/mL	+/- 864.2827

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

Quality Confirmation Test

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.)

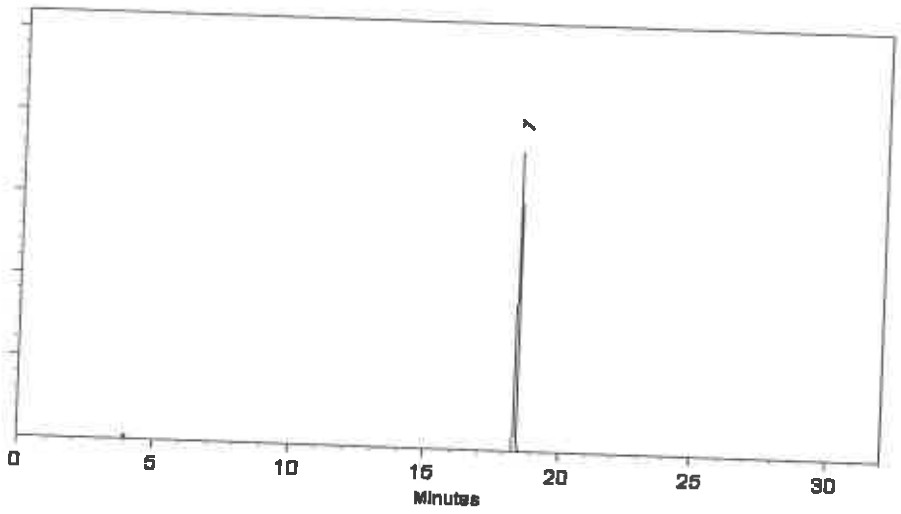
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Russ Bookhamer - Operations Technician I

Date Mixed: 14-Apr-2023 **Balance Serial #** B251644995

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 18-Apr-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

Ethanol_00084

Ethanol 084-089

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. : 571994 **Lot No.:** A0207964

Description : 8260 Ethanol Standard

8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : February 28, 2027 **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	Ethanol	64-17-5	SHBR1203	99%	100,596.0 µg/mL	+/- 1,251.3026

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

* Expanded Uncertainty displayed in same units as Grav. Conc.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:
hydrogen-constant pressure 11 psi.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

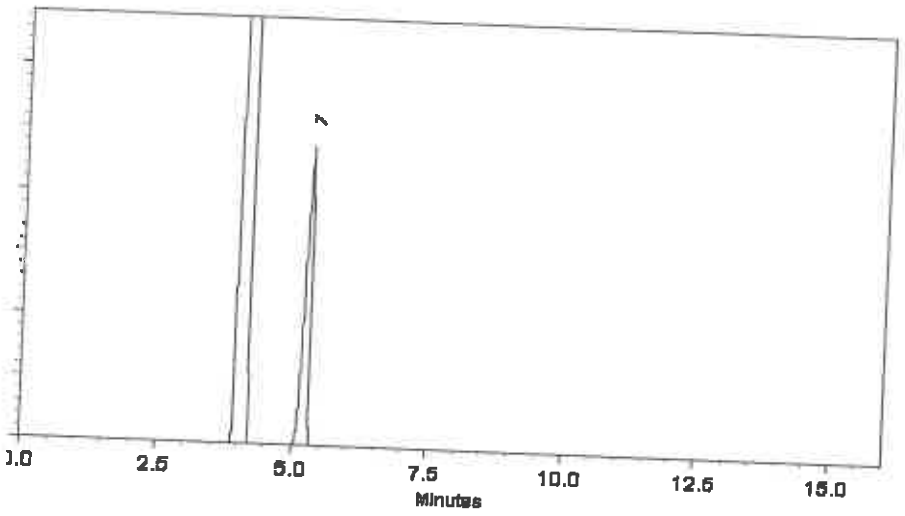
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
10 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.

Dakota Parson - Operations Technician I

Date Mixed: 16-Feb-2024 **Balance Serial #** B442140311

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 20-Feb-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

MB_DFTPP_STK_00121

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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

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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. : 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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Bellefonte, PA 16823-8812
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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. : 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

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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_SS_00035

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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.

Recieved by: ED
2/9/24
MB-LIS10-SS-00035
MB-LIS10-SS-00036
MB-LIS10-SS-00037

Catalog No. : 569731.SEC **Lot No.:** A0199695

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 : January 31, 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.SEC	IG5TI	99%	2,004.0 µg/mL	+/- 112.5874
2	Benzoic acid	65-85-0.SEC	3IANF	99%	2,010.0 µg/mL	+/- 112.9245

* Expanded Uncertainty displayed in same units as Grav. Conc

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

MB_L1S10_STK_00106

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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

MB_L1510_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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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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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_LISIL_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_STK_00048

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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.

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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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_SURR_STK_00071-75

Received 11/5/21

RS

Catalog No. : 567685 **Lot No.:** A0172807

Description : 8270 Surrogate Standard

8270 Surrogate Standard 5,000µg/mL, Methylene chloride, 5mL/ampul

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

me-sb-stk1000_00006

2/7/24

7802879
ID: me-sb-stk1000_00006
Exp: 12/24/26 Prpd:
Antimony stk 1000 ug/mL

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Antimony (Sb) – 1000 µg/mL

Matrix: 5% HNO_3/tr. HF

Product #: TA-100023

Product Lot #: 1435489

Source Material Lot #: N18I027

*Expiration Date: 24 December 2026

Element	Certified Concentration & Uncertainty
Sb	994.0 ± 6.0 µg/mL (w/v)
	974.0 ± 6.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure antimony (Sb) dissolved in high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3102a, lot #140911**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	MAJOR	Te	2
Al	216	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	1	Hg	<0.5	Mn	<1	Pd	2	Se	4	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	5	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	7	Ni	<2	Rh	<0.5	Ta	1	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	10
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

3 January 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Europe
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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Rec 2/7/24

7802880
ID: me-sb-stk1000_00006
Exp: 12/24/26 Prpd:
Antimony stk 1000 ug/mL

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Antimony (Sb) – 1000 µg/mL

Matrix: 5% HNO_3/tr. HF

Product #: TA-100023

Product Lot #: 1435489

Source Material Lot #: N18I027

*Expiration Date: 24 December 2026

Element	Certified Concentration & Uncertainty
Sb	994.0 ± 6.0 µg/mL (w/v)
	974.0 ± 6.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure antimony (Sb) dissolved in high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3102a, lot #140911**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	MAJOR	Te	2
Al	216	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	1	Hg	<0.5	Mn	<1	Pd	2	Se	4	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	5	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	7	Ni	<2	Rh	<0.5	Ta	1	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	10
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

3 January 2024
Certification Date

Date Opened

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The Netherlands

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Reagent

ME_TA_CAL1_00024

CPI INTERNATIONAL

7778782

ID: ME_TA_CAL1_00024

Exp: 10/22/25 Prpd:

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CAL1

ICP ICPMS CAL Mix # 1

Lot #: 1415174

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 22 October 2025

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	100.0 ± 0.5 mg/L	Li	100.0 ± 0.5 mg/L	Si	1000 ± 5 mg/L
Ba	100.0 ± 0.5 mg/L	Mn	100.0 ± 0.5 mg/L	Sn	99.99 ± 0.50 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Sr	100.0 ± 0.5 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Sb	100.0 ± 0.5 mg/L	V	100.0 ± 0.5 mg/L
Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	1338706	Li	1316990	Si	1276425
Ba	1353868	Mn	1294994	Sn	1116280
Be	1165784	Mo	1240650	Sr	1123421
Cd	1378234	Ni	1084161	Ti	1237770
Co	1375613	Pb	1382458	Tl	1222802
Cr	1361547	Sb	1162568	V	1294996
Cu	1353861	Se	1285040		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

2 November 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM
Ag	3151	-
Al	3101a	-
As	3103a	3103a
Au	3121	-
B	3107	3107
Ba	3104a	-
Be	3105a	3105a
Bi	3106	3106
Br^-	3184	-
Ca	3109a	3109a
Cd	3108	-
Ce	3110	3110
Cl^-	3182	1818a
Co	3113	3113
Cr	3112a	-
Cs	3111a	-
Cu	3114	-
Dy	3115a	-
Er	3116a	-
Eu	3117a	-
F^-	3183	-
Fe	3126a	-
Ga	3119a	-
Gd	3118a	-
Ge	3120a	-

Analyte	Aq. SRM	MO SRM
Hf	3122	-
Hg	3133	3133
Ho	3123a	-
In	3124a	3124a
K	3141a	3141a
La	3127a	3127a
Li	3129a	3129a
Lu	3130a	-
Mg	3131a	3131a
Mn	3132	3132
Mo	3134	3134
Na	3152a	-
Nb	3137	-
Nd	3135a	-
Ni	3136	-
NO_3^-	3185	-
P	3139a	3139a
Pb	3128	-
Pd	3138	-
PO_4^{-3}	3186	-
Pr	3142a	-
Pt	3140	3140
Rb	3145a	-
Re	3143	-
Rh	3144	3144

Analyte	Aq. SRM	MO SRM
S	3154	2770
Sb	3102a	3102a
Sc	3148a	3148a
Se	3149	3149
Si	3150	-
Sm	3147a	-
Sn	3161a	-
SO_4^{-2}	3181	-
Sr	3153a	3153a
Ta	3155	-
Tb	3157a	-
Te	3156	-
Th	-	-
Ti	3162a	3162a
Tl	3158	3158
Tm	3160a	-
U	3164	-
V	3165	-
W	3163	3163
Y	3167a	3167a
Yb	3166a	-
Zn	3168a	3168a
Zr	3169	3169

7918260
ID: ME_TA_CAL1_00024
Exp: 02/11/26 Prpd: BMB
ICP, ICPMS Cal mix 1

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CAL1

ICP ICPMS CAL Mix # 1

Lot #: 1437070

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 11 February 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	100.0 ± 0.5 mg/L	Li	99.99 ± 0.50 mg/L	Si	1000 ± 5 mg/L
Ba	100.0 ± 0.5 mg/L	Mn	99.99 ± 0.50 mg/L	Sn	99.99 ± 0.50 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Sr	100.0 ± 0.5 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Sb	100.0 ± 0.5 mg/L	V	100.0 ± 0.5 mg/L
Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	1338706	Li	1316990	Si	1271053
Ba	1353868	Mn	1294994	Sn	1116280
Be	1396842	Mo	1240650	Sr	1387735
Cd	1378234	Ni	1348734	Ti	1318831
Co	1375613	Pb	1382458	Tl	1222802
Cr	1361547	Sb	1395096	V	1294996
Cu	1353861	Se	1396823		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br-	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl-	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

7778781
ID: ME_TA_CAL1_00024
Exp: 02/11/26 Prpd: BMB
ICP, ICPMS Cal mix 1

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CAL1

ICP ICPMS CAL Mix # 1

Lot #: 1437070

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 11 February 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	100.0 ± 0.5 mg/L	Li	99.99 ± 0.50 mg/L	Si	1000 ± 5 mg/L
Ba	100.0 ± 0.5 mg/L	Mn	99.99 ± 0.50 mg/L	Sn	99.99 ± 0.50 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Sr	100.0 ± 0.5 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Sb	100.0 ± 0.5 mg/L	V	100.0 ± 0.5 mg/L
Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	1338706	Li	1316990	Si	1271053
Ba	1353868	Mn	1294994	Sn	1116280
Be	1396842	Mo	1240650	Sr	1387735
Cd	1378234	Ni	1348734	Ti	1318831
Co	1375613	Pb	1382458	Tl	1222802
Cr	1361547	Sb	1395096	V	1294996
Cu	1353861	Se	1396823		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br^-	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl^-	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F^-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

7778781
ID: ME_TA_CAL1_00024
Exp: 02/11/26 Prpd: BMB
ICP, ICPMS Cal mix 1

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CAL1

ICP ICPMS CAL Mix # 1

Lot #: 1437070

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 11 February 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	100.0 ± 0.5 mg/L	Li	99.99 ± 0.50 mg/L	Si	1000 ± 5 mg/L
Ba	100.0 ± 0.5 mg/L	Mn	99.99 ± 0.50 mg/L	Sn	99.99 ± 0.50 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Sr	100.0 ± 0.5 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Sb	100.0 ± 0.5 mg/L	V	100.0 ± 0.5 mg/L
Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L		

Source Material Lot # Chart

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Co	1375613	Pb	1382458	Tl	1222802
Cr	1361547	Sb	1395096	V	1294996
Cu	1353861	Se	1396823		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br^-	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl^-	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F^-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

ME_TA_CAL1_00027

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-CAL1-SS

ICP ICPMS CAL Mix # 1

Lot #: 1364863

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 27 May 2025

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	99.98 ± 0.50 mg/L	Li	100.1 ± 0.5 mg/L	Si	1000 ± 5 mg/L
Ba	99.99 ± 0.50 mg/L	Mn	100.0 ± 0.5 mg/L	Sn	100.1 ± 0.5 mg/L
Be	100.0 ± 0.5 mg/L	Mo	99.99 ± 0.50 mg/L	Sr	100.0 ± 0.5 mg/L
Cd	100.2 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	Tl	100.1 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Sb	99.99 ± 0.50 mg/L	V	99.96 ± 0.50 mg/L
Cu	100.1 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	AO19-71ASX	Li	BB19-51LIX	Si	AV19-68SIX
Ba	AR19-106BAX	Mn	AR19-79MNX	Sn	AL19-75SNX
Be	AV19-119BEX	Mo	2227205	Sr	AS19-46SRX
Cd	AT19-137CDX	Ni	AV19-58NIX	Ti	2215434-500
Co	AT19-67COX	Pb	AW19-60PBX	Tl	2203113
Cr	AO19-61CRX	Sb	2301027	V	AP19-50VX
Cu	AZ19-94CUX	Se	AQ19-41SEX		

Intended Use: This solution is intended for use as a second source certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

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Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau, Certifying Officer	7 June 2023 **Certification Date**	**Date Opened**

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM		Analyte	Aq. SRM	MO SRM		Analyte	Aq. SRM	MO SRM
Ag	3151	-		Hf	3122	-		S	3154	2770
Al	3101a	-		Hg	3133	3133		Sb	3102a	3102a
As	3103a	3103a		Ho	3123a	-		Sc	3148a	3148a
Au	3121	-		In	3124a	3124a		Se	3149	3149
B	3107	3107		K	3141a	3141a		Si	3150	-
Ba	3104a	-		La	3127a	3127a		Sm	3147a	-
Be	3105a	3105a		Li	3129a	3129a		Sn	3161a	-
Bi	3106	3106		Lu	3130a	-		SO_4^{-2}	3181	-
Br^-	3184	-		Mg	3131a	3131a		Sr	3153a	3153a
Ca	3109a	3109a		Mn	3132	3132		Ta	3155	-
Cd	3108	-		Mo	3134	3134		Tb	3157a	-
Ce	3110	3110		Na	3152a	-		Te	3156	-
Cl^-	3182	1818a		Nb	3137	-		Th	-	-
Co	3113	3113		Nd	3135a	-		Ti	3162a	3162a
Cr	3112a	-		Ni	3136	-		Tl	3158	3158
Cs	3111a	-		NO_3^-	3185	-		Tm	3160a	-
Cu	3114	-		P	3139a	3139a		U	3164	-
Dy	3115a	-		Pb	3128	-		V	3165	-
Er	3116a	-		Pd	3138	-		W	3163	3163
Eu	3117a	-		PO_4^{-3}	3186	-		Y	3167a	3167a
F-	3183	-		Pr	3142a	-		Yb	3166a	-
Fe	3126a	-		Pt	3140	3140		Zn	3168a	3168a
Ga	3119a	-		Rb	3145a	-		Zr	3169	3169
Gd	3118a	-		Re	3143	-				
Ge	3120a	-		Rh	3144	3144				

Reagent

MEA_Al_STK_00015

7802881
ID: MEA_Al_STK_00015
Exp: 07/09/25 Prpd:
Aluminum stock, 10,000 µg

Rec. 2/7/24

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Aluminum (Al) – 10,000 µg/mL

Matrix: 5% HNO_3

Product #: TA-10M11

Product Lot #: 1427322

Source Material Lot #: ALM112021A1

*Expiration Date: 9 July 2026

Element	Certified Concentration & Uncertainty
Al	10,025 ± 37 µg/mL (w/v)
	9400 ± 34 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure aluminum nitrate [$Al(NO_3)_3$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3101a, lot #140903**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Co	<10	Ge	<5	Lu	<2	P	<1000	Sb	15	Te	<10
Al	MAJOR	Cs	<5	Hf	<2	Mg	<50	Pb	<10	Sc	<50	Ti	<20
As	<20	Cr	28	Hg	<5	Mn	<10	Pd	<5	Se	<20	Tl	<5
Au	<5	Cu	<10	Ho	<2	Mo	<5	Pr	<2	Si	<1000	Tm	<2
B	<50	Dy	<2	In	nd	Na	<250	Pt	<5	Sm	<2	V	12
Ba	11	Er	<2	Ir	<2	Nb	<5	Rb	<5	Sn	<5	W	<5
Bi	<5	Eu	<2	K	<250	Nd	<2	Re	<2	Sr	<10	Y	<5
Ca	<250	Fe	361	La	<5	Ni	<20	Rh	<5	Ta	<5	Yb	<2
Cd	<5	Ga	296	Li	<20	Os	<5	Ru	<5	Tb	<5	Zn	<20
Ce	<2	Gd	<2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

25 July 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
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- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements
  (Registrar: TUV NORD)

Reagent

MEA_As_STK_00009

7918079
ID: MEA_As_STK_00009
Exp: 06/12/26 Prpd:
Arsenic stock, 1,000 ug/m

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: TA-100031

SE Std Arsenic (As) – 1000 µg/mL

Product Lot #: 1432180

Matrix: 5% HNO_3

Source Material Lot #: ASE022023A1

*Expiration Date: 12 June 2026

Element	Certified Concentration & Uncertainty
As	993.0 ± 2.0 µg/mL (w/v)
	976.0 ± 2.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure arsenic (As) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3103a, lot #100818**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	MAJOR	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	1	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	0.6	Ru	1	Tb	<0.5	Zn	29.04
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

28 June 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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The Netherlands

www.cpiinternational.com

Reagent

MEA_Cr_STK_00011



CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Chromium (Cr) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000121

Product Lot #: 1430567

Source Material Lot #: M07F002/Z29H032

*Expiration Date: 12 November 2026

Element	Certified Concentration & Uncertainty
Cr	1003 ± 3 µg/mL (w/v)
	994.0 ± 3.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.996% pure chromium (Cr) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3112a, lot #170630**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	50	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	26	Cs	0.7	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	MAJOR	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	7	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	18	Er	<0.2	Ir	<0.2	Nb	3	Rb	2	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	101	La	<0.5	Ni	30	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	23
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

28 November 2023
Certification Date

Date Opened

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Reagent

MEA_Cu_STK_00008

7750108
ID: MEA_Cu_STK_00008
Exp: 03/01/25 Prpd:
Copper stock, 1,000 ug/mL

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: TA-1000141

SE Std Copper (Cu) – 1000 µg/mL

Product Lot #: 1259550-25

Matrix: 5% HNO_3

Source Material Lot #: CUV072016A1

Element	Certified Concentration & Uncertainty
Cu	1008 ± 3 µg/mL (w/v)
	998.0 ± 3.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001, ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure copper (Cu) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3114, lot #121207**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Co	<10	Ge	<5	Lu	<2	P	<1000	Sb	<5	Te	<10
Al	<20	Cs	<5	Hf	<2	Mg	<50	Pb	<10	Sc	<50	Ti	<20
As	<20	Cr	<5	Hg	<5	Mn	<10	Pd	<5	Se	<20	Tl	<5
Au	<5	Cu	MAJOR	Ho	<2	Mo	<5	Pr	<2	Si	<1000	Tm	<2
B	<50	Dy	<2	In	nd	Na	<250	Pt	<5	Sm	<2	V	<10
Ba	<10	Er	<2	Ir	<2	Nb	<5	Rb	<5	Sn	<5	W	<5
Bi	<2	Eu	<2	K	<250	Nd	<2	Re	<2	Sr	<10	Y	<5
Ca	<250	Fe	<100	La	<5	Ni	<20	Rh	<5	Ta	<5	Yb	<2
Cd	<5	Ga	<5	Li	<20	Os	<5	Ru	<5	Tb	<5	Zn	<20
Ce	<2	Gd	<2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

September 8, 2023
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

MEA_Cu_STK_00010

1/3/24

7759532
ID: MEA_Cu_STK_00010
Exp: 11/14/26 Prpd:
Copper stock, 1,000 ug/mL

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Copper (Cu) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000141

Product Lot #: 1427285

Source Material Lot #: CUD042023A1

*Expiration Date: 14 November 2026

Element	Certified Concentration & Uncertainty
Cu	1001 ± 4 µg/mL (w/v)
	997.0 ± 4.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure copper (Cu) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3114, lot #120618**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	MAJO	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	0.4	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	4	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

30 November 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

MEA_Fe_STK_00016

Rec: 2/7/24

7802882
ID: MEA_Fe_STK_00016
Exp: 03/29/26 Prpd:
Iron stock, 10,000 ug/mL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Iron (Fe) – 10,000 µg/mL

Matrix: 5% HNO_3

Product #: TA-10M261

Product Lot #: 1421665

Source Material Lot #: FED052022A1

*Expiration Date: 29 March 2026

Element	Certified Concentration & Uncertainty
Fe	10,030 ± 39 µg/mL (w/v)
	9631 ± 37 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 10,000 µg/mL by gravimetric methods using 99.999% pure iron nitrate nonahydrate [$Fe(NO_3)_3$] dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3126a, lot #140812**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<5	Co	18	Ge	<5	Lu	<2	P	<1000	Sb	<5	Te	<10
Al	<20	Cs	<5	Hf	<2	Mg	<50	Pb	<10	Sc	<50	Ti	<20
As	<20	Cr	9	Hg	<5	Mn	<10	Pd	<5	Se	<20	Tl	<5
Au	<5	Cu	<10	Ho	<2	Mo	<5	Pr	<2	Si	<1000	Tm	<2
B	<50	Dy	<2	In	nd	Na	<250	Pt	<5	Sm	<2	V	<10
Ba	<10	Er	<2	Ir	<2	Nb	<5	Rb	<5	Sn	<5	W	<5
Bi	<2	Eu	<2	K	<250	Nd	<2	Re	<2	Sr	<10	Y	<5
Ca	<250	Fe	MAJOR	La	<5	Ni	<20	Rh	<5	Ta	<5	Yb	<2
Cd	<5	Ga	11	Li	<20	Os	<5	Ru	<5	Tb	<5	Zn	<20
Ce	<2	Gd	<2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

12 April 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MEA_Ni_STK_00008

7918068

ID: MEA_Ni_STK_00008
Exp: 01/31/26 Prpd:
Nickel stock, 1,000 ug/mL

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Nickel (Ni) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000361

Product Lot #: 1399080

Source Material Lot #: 61200762

*Expiration Date: 31 January 2026

Element	Certified Concentration & Uncertainty
Ni	998.0 ± 4.0 µg/mL (w/v)
	989.0 ± 4.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.996% pure nickel (Ni) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3136, lot #120619**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	45	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	MAJOR	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

14 February 2023
Certification Date

Date Opened

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MEA_PB_STK_00012

7918074
ID: MEA_PB_STK_00012
Exp: 12/18/26 Prpd:
Lead stock, 1,000 ug/mL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Lead (Pb) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000281

Product Lot #: 1429023

Source Material Lot #: M23J055

*Expiration Date: 18 September 2026

Element	Certified Concentration & Uncertainty
Pb	1006 ± 2 µg/mL (w/v)
	1003 ± 2 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure lead (Pb) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3128, lot #101026**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	52	Te	<1
Al	<2	Cs	<0.5	Hf	0.4	Mg	<5	Pb	MAJOR	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	2
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	1	W	<0.5
Bi	4	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	44	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

4 October 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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The Netherlands

www.cpiinternational.com

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MEA_Se_STK_00010



CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Selenium (Se) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000491

Product Lot #: 1428537

Source Material Lot #: SEV022020A1/SEV042018A1

*Expiration Date: 16 October 2026

Element	Certified Concentration & Uncertainty
Se	995.0 ± 6.0 µg/mL (w/v)
	983.0 ± 6.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.999% pure selenium (Se) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3149, lot #100901**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	1	Se	MAJOR	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	0.5	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

1 November 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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www.cpiinternational.com

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MEI_ABpt1_STK_00006

7791229
ID: MEI_ABpt1_STK_00006
Exp: 09/30/25 Prpd: NZG
CPI ICP ICSAB MIX sol 1 S

8

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSAB-1

ICP ICSAB Mix Solution 1

Lot #: 1399525

Matrix: 5% HNO_3/0.5% HF

*Expiration Date: 30 June 2025

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Mo	100.1 ± 0.5 mg/L	Si	1000 ± 5 mg/L	Ti	100.1 ± 0.5 mg/L
Sb	100.2 ± 0.5 mg/L	Sn	100.3 ± 0.5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Mo	1240650	Si	1289108	Ti	1091371
Sb	1162568	Sn	1116280		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see final page)**. The solution was diluted with filtered (0.22 µm), 18 M-ohm deionized water and stabilized the appropriate high-purity acid(s) as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see final page)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***18 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

11 September 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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CERTIFICATE OF ANALYSIS

Single-Element Aqueous RM

Thorium (Th) – 1000 µg/mL

Matrix: 2% HNO_3

Product #: S4400-1000591

Lot #: 1446012

*Expiration Date: 23 October 2025

Element	Certified Concentration & Uncertainty
Th	1001 ± 5 µg/mL (w/v)
	982.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a reference material (RM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This RM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This RM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using pure thorium nitrate [$Th(NO_3)_4$]. The solution was diluted with filtered (0.22um), 18 M-ohm water and stabilized with the appropriate high-purity acid as indicated in the listed matrix. The balances used in the preparation of this RM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable method against an alternate lot as NIST SRM is not available. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	2	Te	<1		
Al	6	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2		
As	<2	Cr	2	Hg	<0.5	Mn	39	Pd	1	Se	<2	Tl	<0.5		
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	0.6	Si	<100	Tm	<0.2		
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1		
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	0.9	Sn	<0.5	W	<0.5		
Bi	<0.2	Eu	<0.2	K	<25	Nd	2	Re	2	Sr	<1	Y	<0.5		
Ca	<25	Fe	<10	La	2	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2		
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	<2		
Ce	5	Gd	<0.2												

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the RM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original RM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

5 May 2022

Certification Date

Date Opened

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Reagent

MEI_ABpt2_STK_00005

7791230
ID: MEI_ABpt2_STK_00005
Exp: 10/21/25 Prpd: NZG
CPI ICP ICSAB MIX sol 2 S

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSAB-2

ICP ICSAB Mix Solution 2

Lot #: 1333445-1

Matrix: 5% HNO_3

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	100.0 ± 0.5 mg/L	Cr	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L
As	99.94 ± 0.50 mg/L	Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L
B	1000 ± 5 mg/L	K	1000 ± 5 mg/L	Sr	100.0 ± 0.5 mg/L
Ba	99.99 ± 0.50 mg/L	Mn	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Be	50.02 ± 0.25 mg/L	Na	1000 ± 5 mg/L	V	100.1 ± 0.5 mg/L
Cd	99.99 ± 0.50 mg/L	Ni	100.0 ± 0.5 mg/L	Zn	99.98 ± 0.50 mg/L
Co	100.0 ± 0.5 mg/L	P	1000 ± 5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Ag	1198373	Cr	1242583	Pb	992969
As	AN18-150ASX	Cu	1207839	Se	1285040
B	1237794	K	1287603	Sr	1244946
Ba	1216157	Mn	1136846	Tl	1059794
Be	1270256	Na	1245609	V	1139942
Cd	1240656	Ni	1084161	Zn	1149838
Co	1237802	P	1035677		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2

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CPI INTERNATIONAL

7791231
ID: MEI_ABpt2_STK_00005
Exp: 10/21/25 Prpd: NZG
CPI ICP ICSAB MIX sol 2 S

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSAB-2

ICP ICSAB Mix Solution 2

Lot #: 1333445-1

Matrix: 5% HNO_3

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Ag	100.0 ± 0.5 mg/L	Cr	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L
As	99.94 ± 0.50 mg/L	Cu	100.0 ± 0.5 mg/L	Se	100.0 ± 0.5 mg/L
B	1000 ± 5 mg/L	K	1000 ± 5 mg/L	Sr	100.0 ± 0.5 mg/L
Ba	99.99 ± 0.50 mg/L	Mn	100.0 ± 0.5 mg/L	Tl	100.0 ± 0.5 mg/L
Be	50.02 ± 0.25 mg/L	Na	1000 ± 5 mg/L	V	100.1 ± 0.5 mg/L
Cd	99.99 ± 0.50 mg/L	Ni	100.0 ± 0.5 mg/L	Zn	99.98 ± 0.50 mg/L
Co	100.0 ± 0.5 mg/L	P	1000 ± 5 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Ag	1198373	Cr	1242583	Pb	992969
As	AN18-150ASX	Cu	1207839	Se	1285040
B	1237794	K	1287603	Sr	1244946
Ba	1216157	Mn	1136846	Tl	1059794
Be	1270256	Na	1245609	V	1139942
Cd	1240656	Ni	1084161	Zn	1149838
Co	1237802	P	1035677		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2

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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM
Ag	3151	-
Al	3101a	-
As	3103a	3103a
Au	3121	-
B	3107	3107
Ba	3104a	-
Be	3105a	3105a
Bi	3106	3106
Br	3184	-
Ca	3109a	3109a
Cd	3108	-
Ce	3110	3110
Cl	3182	1818a
Co	3113	3113
Cr	3112a	-
Cs	3111a	-
Cu	3114	-
Dy	3115a	-
Er	3116a	-
Eu	3117a	-
F-	3183	-
Fe	3126a	-
Ga	3119a	-
Gd	3118a	-
Ge	3120a	-

Analyte	Aq. SRM	MO SRM
Hf	3122	-
Hg	3133	3133
Ho	3123a	-
In	3124a	3124a
K	3141a	3141a
La	3127a	3127a
Li	3129a	3129a
Lu	3130a	-
Mg	3131a	3131a
Mn	3132	3132
Mo	3134	3134
Na	3152a	-
Nb	3137	-
Nd	3135a	-
Ni	3136	-
NO_3^-	3185	-
P	3139a	3139a
Pb	3128	-
Pd	3138	-
PO_4^{-3}	3186	-
Pr	3142a	-
Pt	3140	3140
Rb	3145a	-
Re	3143	-
Rh	3144	3144

Analyte	Aq. SRM	MO SRM
S	3154	2770
Sb	3102a	3102a
Sc	3148a	3148a
Se	3149	3149
Si	3150	-
Sm	3147a	-
Sn	3161a	-
SO_4^{-2}	3181	-
Sr	3153a	3153a
Ta	3155	-
Tb	3157a	-
Te	3156	-
Th	-	-
Ti	3162a	3162a
Tl	3158	3158
Tm	3160a	-
U	3164	-
V	3165	-
W	3163	3163
Y	3167a	3167a
Yb	3166a	-
Zn	3168a	3168a
Zr	3169	3169

Reagent

MEI_Adj_A_STK_00012

CPI INTERNATIONAL

7534547
ID: MEI_Adj_A_STK_00012
Exp: 11/01/24 Prpd:
CPI ICP ICSA MIX _

7534546
ID: MEI_Adj_A_STK_00012
Exp: 11/01/24 Prpd:
CPI ICP ICSA MIX _

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1336399-1

Matrix: 5% HNO_3

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5000 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1249289	Fe	1249266
Ca	1232112	Mg	1222806

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	1	Fe	MAJOR	Sb	10
Al	MAJOR	Hg	<0.5	Se	<2
As	<0.5	K	56	Sn	2
Ba	14	Li	<2	Sr	22
Be	<0.5	Mg	MAJOR	Th	<0.5
Ca	MAJOR	Mn	13	Ti	7
Cd	<0.5	Mo	2	Tl	<0.5
Co	7	Na	786	U	0.8
Cr	21	Ni	4	V	<2
Cu	4	Pb	3	Zn	20

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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
  - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

7534547
ID: MEI_Adj_A_STK_00012
Exp: 11/01/24 Prod: vAK
CPI ICP ICSA MIX

TA-ICP-ICSA

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-ICP-ICSA

ICP ICSA Mix

Lot #: 1437074

Matrix: 5% HNO_3

*Expiration Date: 12 January 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	5000 ± 25 mg/L	Fe	2000 ± 10 mg/L
Ca	5000 ± 25 mg/L	Mg	5000 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
Al	1369281	Fe	1249266
Ca	1344004	Mg	1222806

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side).** The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side).** The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Fe	MAJOR	Sb	<0.5
Al	MAJOR	Hg	<0.5	Se	<2
As	<0.5	K	<50	Sn	<0.5
Ba	23	Li	<2	Sr	34
Be	<0.5	Mg	MAJOR	Th	<0.5
Ca	MAJOR	Mn	11	Ti	<2
Cd	<0.5	Mo	<0.5	Tl	<0.5
Co	<0.5	Na	<50	U	<0.5
Cr	<1	Ni	<1	V	<2
Cu	<1	Pb	<0.5	Zn	<2

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The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM
Ag	3151	-
Al	3101a	-
As	3103a	3103a
Au	3121	-
B	3107	3107
Ba	3104a	-
Be	3105a	3105a
Bi	3106	3106
Br^-	3184	-
Ca	3109a	3109a
Cd	3108	-
Ce	3110	3110
Cl^-	3182	1818a
Co	3113	3113
Cr	3112a	-
Cs	3111a	-
Cu	3114	-
Dy	3115a	-
Er	3116a	-
Eu	3117a	-
F^-	3183	-
Fe	3126a	-
Ga	3119a	-
Gd	3118a	-
Ge	3120a	-

Analyte	Aq. SRM	MO SRM
Hf	3122	-
Hg	3133	3133
Ho	3123a	-
In	3124a	3124a
K	3141a	3141a
La	3127a	3127a
Li	3129a	3129a
Lu	3130a	-
Mg	3131a	3131a
Mn	3132	3132
Mo	3134	3134
Na	3152a	-
Nb	3137	-
Nd	3135a	-
Ni	3136	-
NO_3^-	3185	-
P	3139a	3139a
Pb	3128	-
Pd	3138	-
PO_4^{-3}	3186	-
Pr	3142a	-
Pt	3140	3140
Rb	3145a	-
Re	3143	-
Rh	3144	3144

Analyte	Aq. SRM	MO SRM
S	3154	2770
Sb	3102a	3102a
Sc	3148a	3148a
Se	3149	3149
Si	3150	-
Sm	3147a	-
Sn	3161a	-
SO_4^{-2}	3181	-
Sr	3153a	3153a
Ta	3155	-
Tb	3157a	-
Te	3156	-
Th	-	-
Ti	3162a	3162a
Tl	3158	3158
Tm	3160a	-
U	3164	-
V	3165	-
W	3163	3163
Y	3167a	3167a
Yb	3166a	-
Zn	3168a	3168a
Zr	3169	3169

Reagent

MEI_B_1,000_00015

8039838
ID: MEI_B_1,000_00015
Exp: 01/31/27 Prpd:
CPI B 1,000 Std

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Boron (B) – 1000 µg/mL

Matrix: H_2O

Product #: TA-100074

Product Lot #: 1450184

Source Material Lot #: R20F050/X19H024

*Expiration Date: 31 January 2027

Element	Certified Concentration & Uncertainty
B	1004 ± 3 µg/mL (w/v)
	1006 ± 3 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9995% pure boric acid (H_3BO_3) dissolved and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3107, lot #190605**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	35	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Th	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	MAJOR	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	2	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

16 February 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

MEI_Zn_1,000_00012

1/3/24

7758420

ID: MEI_Zn_1,000_00012

Exp: 01/01/25 Prpd:

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 2% HNO_3

Product #: TA-1000681-SS

Product Lot #: 711727255-1

Source Material Lot #: 2136117-500

Element	Certified Concentration & Uncertainty
Zn	1000 ± 3 µg/mL (w/v)
	988.1 ± 3.0 µg/g (w/w)

Intended Use: This solution is intended for use as a second source certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.02	Co	<0.05	Ge	<0.02	Mg	<0.1	Pd	<0.02	Si	<5	V	<0.05
Al	<0.05	Cr	<0.05	Hf	<0.02	Mn	<0.05	Pr	<0.02	Sm	<0.02	W	<0.02
As	<0.05	Cs	<0.02	Hg	Nd	Mo	<0.02	Pt	<0.02	Sn	<0.5	Y	<0.02
Au	<0.02	Cu	<0.02	Ho	<0.02	Na	<3	Rb	<0.02	Sr	<0.02	Yb	<0.02
B	<1	Dy	<0.02	In	<0.02	Nb	<0.02	Re	<0.02	Ta	<0.02	Zn	Major
Ba	<0.02	Er	<0.02	Ir	<0.02	Nd	<0.02	Rh	<0.02	Tb	<0.02		
Bi	<0.02	Eu	<0.02	K	<1	Ni	<0.2	Ru	<0.3	Te	<0.4		
Ca	<1	Fe	<1	La	<0.02	Os	<0.02	Sb	<0.02	Ti	<0.02		
Cd	<0.4	Ga	<0.02	Li	<0.02	P	Nd	Sc	<0.02	Tl	<0.02		
Ce	<0.02	Gd	<0.02	Lu	<0.02	Pb	3	Se	<0.1	Tm	<0.02		

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

July 20, 2023

Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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The Netherlands

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9/13/24

7758420

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1390097

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI international ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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The Netherlands

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1216101-73

Source Material Lot #: X17E073/M15F020/Y28D045

Element	Certified Concentration & Uncertainty
Zn	1010 ± 6 µg/mL (w/v)
	1002 ± 6 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1		
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2		
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5		
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2		
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1		
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5		
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5		
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2		
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR		
Ce	<0.2	Gd	<0.2												

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution for **18 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

June 26, 2023
Certification Date

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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Reagent

MEI_Zn_1,000_00013

2/7/24

7802884
ID: MEI_Zn_1,000_00013
Exp: 03/05/26 Prpd:
CPI Zn 1,000 Std

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1398666

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629.** The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

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Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
  - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br^-	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl^-	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F^-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

MEI_Zn_1,000_00014

Rec 6/18/24

7970935
ID: MEI_Zn_1,000_00014
Exp: 03/05/26 Prpd:
CPI Zn 1,000 Std

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1398666

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

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Rec 11/8/24

7970936
ID: MEI_Zn_1,000_00014
Exp: 03/05/26 Prpd:
CPI Zn 1,000 Std

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1398666

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

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Rec 6/18/24

7970937
ID: MEI_Zn_1,000_00014
Exp: 03/05/26 Prpd:
CPI Zn 1,000 Std

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1390097

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629.** The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

www.cpiinternational.com

Reagent

MEI_Zn_1,000S_00003

7918252

ID: MEI_Zn_1,000S_00003
Exp: 03/05/26 Prpd:
CPI Zn 1,000 Std SS

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

SE Std Zinc (Zn) – 1000 µg/mL

Matrix: 5% HNO_3

Product #: TA-1000681

Lot #: 1459124

Source Material Lot #: Y28D045

*Expiration Date: 5 March 2026

Element	Certified Concentration & Uncertainty
Zn	998.0 ± 5.0 µg/mL (w/v)
	986.0 ± 5.0 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to a nominal concentration of 1000 µg/mL by gravimetric methods using 99.9999% pure zinc (Zn) dissolved in high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3168a, lot #120629**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	<0.5	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	<0.5	Tb	<0.5	Zn	MAJOR
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

21 March 2023
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

USA
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Europe
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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM	Analyte	Aq. SRM	MO SRM
Ag	3151	-	Hf	3122	-	S	3154	2770
Al	3101a	-	Hg	3133	3133	Sb	3102a	3102a
As	3103a	3103a	Ho	3123a	-	Sc	3148a	3148a
Au	3121	-	In	3124a	3124a	Se	3149	3149
B	3107	3107	K	3141a	3141a	Si	3150	-
Ba	3104a	-	La	3127a	3127a	Sm	3147a	-
Be	3105a	3105a	Li	3129a	3129a	Sn	3161a	-
Bi	3106	3106	Lu	3130a	-	SO_4^{-2}	3181	-
Br^-	3184	-	Mg	3131a	3131a	Sr	3153a	3153a
Ca	3109a	3109a	Mn	3132	3132	Ta	3155	-
Cd	3108	-	Mo	3134	3134	Tb	3157a	-
Ce	3110	3110	Na	3152a	-	Te	3156	-
Cl^-	3182	1818a	Nb	3137	-	Th	-	-
Co	3113	3113	Nd	3135a	-	Ti	3162a	3162a
Cr	3112a	-	Ni	3136	-	Tl	3158	3158
Cs	3111a	-	NO_3^-	3185	-	Tm	3160a	-
Cu	3114	-	P	3139a	3139a	U	3164	-
Dy	3115a	-	Pb	3128	-	V	3165	-
Er	3116a	-	Pd	3138	-	W	3163	3163
Eu	3117a	-	PO_4^{-3}	3186	-	Y	3167a	3167a
F^-	3183	-	Pr	3142a	-	Yb	3166a	-
Fe	3126a	-	Pt	3140	3140	Zn	3168a	3168a
Ga	3119a	-	Rb	3145a	-	Zr	3169	3169
Gd	3118a	-	Re	3143	-			
Ge	3120a	-	Rh	3144	3144			

Reagent

MV_BFB_STK_00095

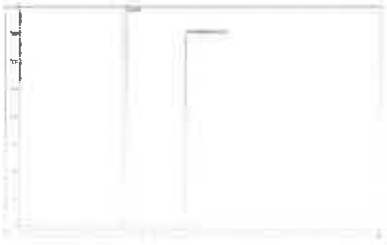
BFB 095-099

Supelco

www.sigmaaldrich.com
Document 20550009 Version 2.0

Certificate of Analysis - Certified Reference Material

4-Bromofluorobenzene solution



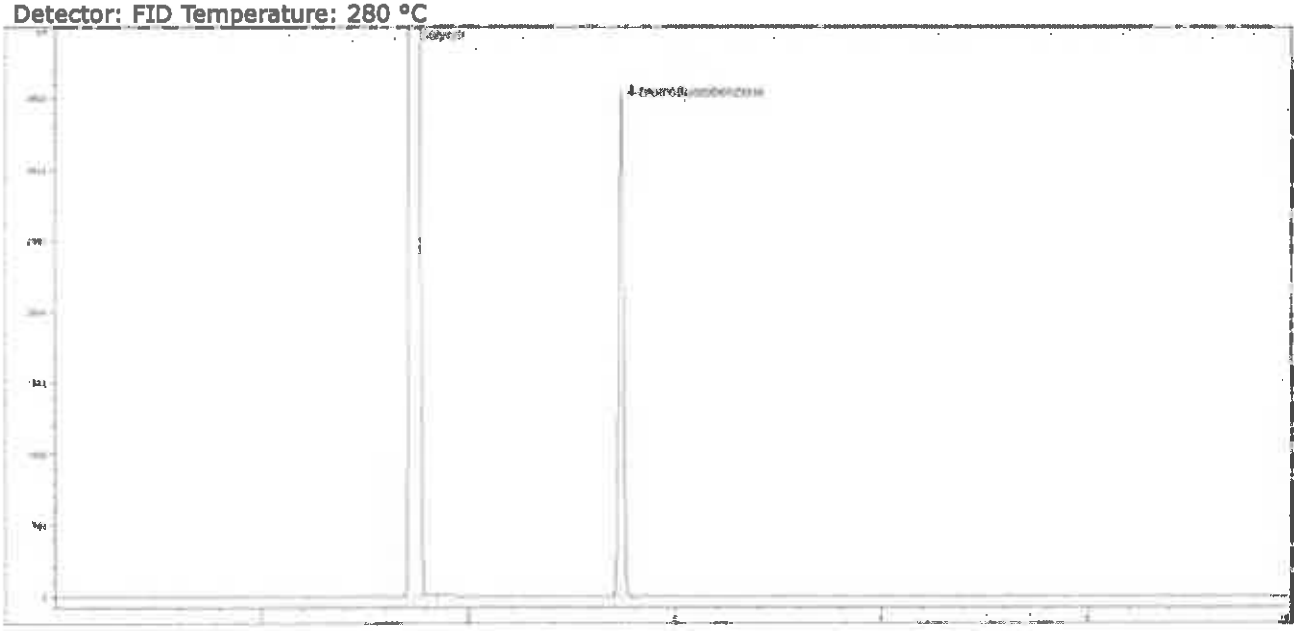
Product no.: 48800
Lot no.: LRAD6467
Expiry Date: November 2026
Manufacturing Date: November 2023
Storage: ROOM TEMPERATURE (2 °C to 30 °C)
Solvent/Matrix: METHANOL
Certificate version: LRAD6467.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com 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: $MeCl_2$

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 Tipps

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\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

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
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

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 Prep'd: Crl: 09/30/24 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	7.60	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(SIM)/VT TALs Reagent ID:

8092300
ID: O_8270LLsurr_00103
Exp: 04/04/25 Prpd: Crt: 10/04/24
8270 LL surrogate @ 8.0 u

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



Report Date: 08-Oct-2024 08:34:32 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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.)

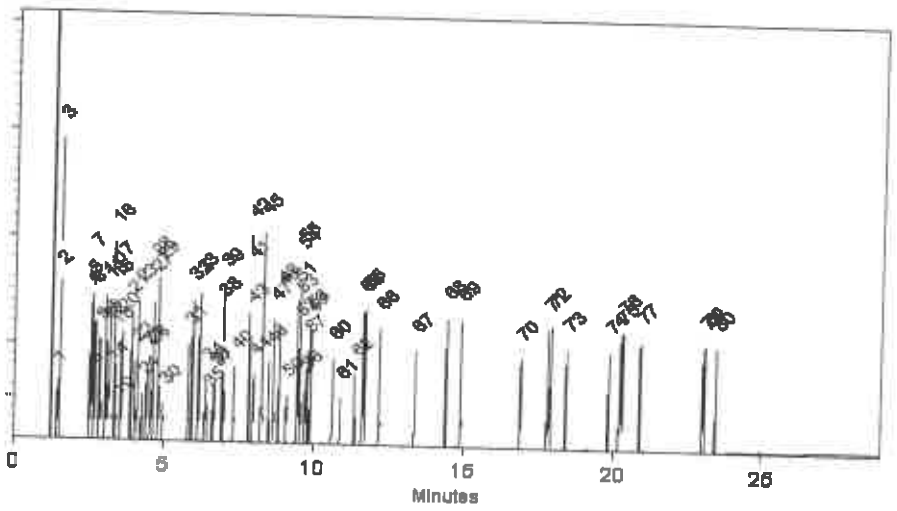
Inj. Temp:
250°C

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.)

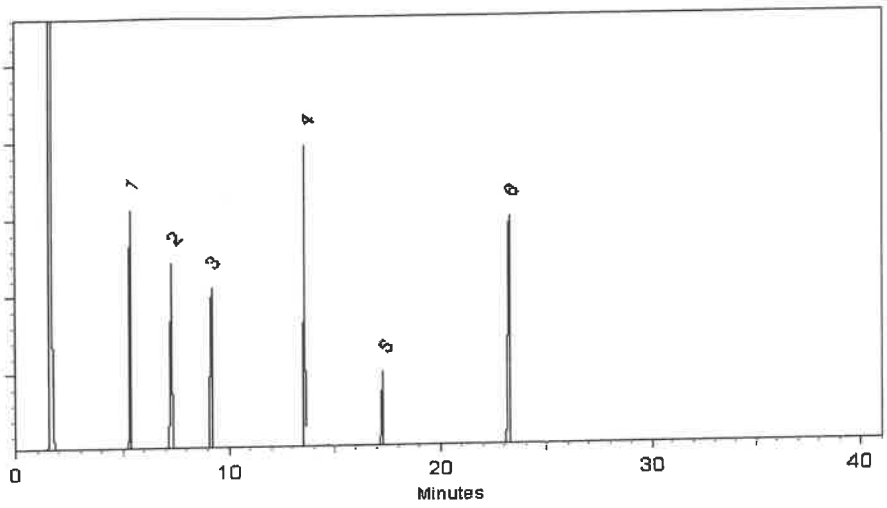
Inj. Temp:
250°C

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

Polar Adds_00143

Polar Adds 143 – 148

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. : 571993 **Lot No.:** A0194786

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : February 28, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.;K=2)
1	Acetonitrile	75-05-8	SHBH6233	99%	25,178.4 µg/mL	+/- 411.7151
2	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	2,519.2 µg/mL	+/- 41.2058
3	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	2,512.8 µg/mL	+/- 41.1011
4	Propionitrile	107-12-0	BCCF4167	99%	25,095.6 µg/mL	+/- 410.3612
5	tert-Amyl alcohol	75-85-4	STBB1898V	99%	25,105.6 µg/mL	+/- 410.5247
6	tert-Amyl methyl ether (TAME)	994-05-8	HMBG7745V	99%	2,514.0 µg/mL	+/- 41.1207

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

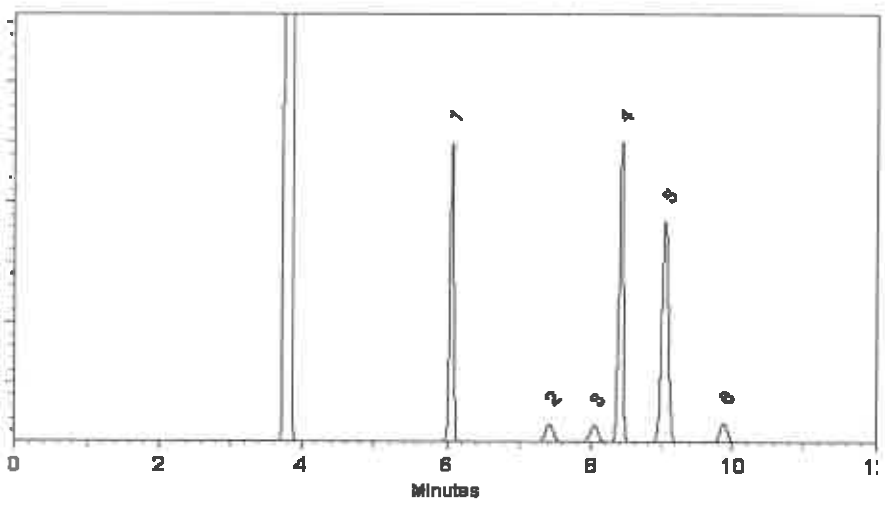
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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

Date Mixed: 17-Feb-2023 Balance Serial # B707717271

Jennifer Polino - Operations Tech III - ARM QC

Date Passed: 21-Feb-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

Spike Mx 1_00006

8058436
ID: Spike Mx 1_00006
Exp: 12/10/25 Prpd:
Metals spike mix #1

rec 09/03/24

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-SPIKE1+

Spike Mix # 1

Lot #: 1421974

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 10 December 2025

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
As	200.0 ± 1.0 mg/L	Li	100.0 ± 0.5 mg/L	Sn	200.0 ± 1.0 mg/L
Ba	200.0 ± 1.0 mg/L	Mn	100.0 ± 0.5 mg/L	Sr	100.0 ± 0.5 mg/L
Be	100.0 ± 0.5 mg/L	Mo	100.0 ± 0.5 mg/L	Ti	100.0 ± 0.5 mg/L
Cd	100.0 ± 0.5 mg/L	Ni	100.0 ± 0.5 mg/L	Tl	200.0 ± 1.0 mg/L
Co	100.0 ± 0.5 mg/L	Pb	100.0 ± 0.5 mg/L	V	100.0 ± 0.5 mg/L
Cr	100.0 ± 0.5 mg/L	Se	200.0 ± 1.0 mg/L		
Cu	100.0 ± 0.5 mg/L	Si	200.0 ± 1.0 mg/L		

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
As	1338706	Li	1316990	Sn	1116280
Ba	1353868	Mn	1294994	Sr	1244946
Be	1165784	Mo	1120495	Ti	1279907
Cd	1378234	Ni	1084161	Tl	1222802
Co	1375613	Pb	1382458	V	1294996
Cr	1361547	Se	1396823		
Cu	1353861	Si	1386111		

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see last page)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

USA
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F: 707.545.7901

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

www.cpiinternational.com

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

This CRM is traceable to the following NIST SRMs:

Analyte	Aq. SRM	MO SRM
Ag	3151	-
Al	3101a	-
As	3103a	3103a
Au	3121	-
B	3107	3107
Ba	3104a	-
Be	3105a	3105a
Bi	3106	3106
Br^-	3184	-
Ca	3109a	3109a
Cd	3108	-
Ce	3110	3110
Cl^-	3182	1818a
Co	3113	3113
Cr	3112a	-
Cs	3111a	-
Cu	3114	-
Dy	3115a	-
Er	3116a	-
Eu	3117a	-
F^-	3183	-
Fe	3126a	-
Ga	3119a	-
Gd	3118a	-
Ge	3120a	-

Analyte	Aq. SRM	MO SRM
Hf	3122	-
Hg	3133	3133
Ho	3123a	-
In	3124a	3124a
K	3141a	3141a
La	3127a	3127a
Li	3129a	3129a
Lu	3130a	-
Mg	3131a	3131a
Mn	3132	3132
Mo	3134	3134
Na	3152a	-
Nb	3137	-
Nd	3135a	-
Ni	3136	-
NO_3^-	3185	-
P	3139a	3139a
Pb	3128	-
Pd	3138	-
PO_4^{-3}	3186	-
Pr	3142a	-
Pt	3140	3140
Rb	3145a	-
Re	3143	-
Rh	3144	3144

Analyte	Aq. SRM	MO SRM
S	3154	2770
Sb	3102a	3102a
Sc	3148a	3148a
Se	3149	3149
Si	3150	-
Sm	3147a	-
Sn	3161a	-
SO_4^{-2}	3181	-
Sr	3153a	3153a
Ta	3155	-
Tb	3157a	-
Te	3156	-
Th	-	-
Ti	3162a	3162a
Tl	3158	3158
Tm	3160a	-
U	3164	-
V	3165	-
W	3163	3163
Y	3167a	3167a
Yb	3166a	-
Zn	3168a	3168a
Zr	3169	3169

Reagent

Spike Mx 2_00005

8080240
ID: Spike Mx 2_00005
Exp: 11/13/25 Prpd:
Metals spike mix #2

rec 9/23/24

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-SPIKE2

Spike Mix # 2

Lot #: 1466116

Matrix: 5% HNO_3

*Expiration Date: 13 November 2025

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
Al	1000 ± 5 mg/L	Fe	1000 ± 5 mg/L	Mg	5000 ± 25 mg/L
Ca	5000 ± 25 mg/L	K	5000 ± 25 mg/L	Na	5000 ± 25 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #	Element	Source Material Lot #
Al	1369281	Fe	1249266	Mg	1222806
Ca	1344004	K	1367374	Na	1344394

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to, **ISO 17034**, **ISO/IEC 17025** and **ISO 9001**.This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

17 May 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

USA
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F: 707.545.7901

Europe
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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

www.cpiinternational.com

Reagent

Spike Mx 3_00005

8080241
ID: Spike Mx 3_00005
Exp: 02/28/26 Prpd:
Metals spike mix #3

CPI INTERNATIONAL

rec 9123124

CERTIFICATE OF ANALYSIS

Multi-Element Aqueous CRM

Product #: TA-SPIKE3

Spike Mix # 3

Lot #: 1489780

Matrix: 5% HNO_3/tr. HF

*Expiration Date: 28 February 2026

Element	Certified Concentration & Uncertainty	Element	Certified Concentration & Uncertainty
P	2001 ± 10 mg/L	U	200.1 ± 1.0 mg/L
S	999.9 ± 5.0 mg/L	W	99.99 ± 0.50 mg/L

Source Material Lot # Chart

Element	Source Material Lot #	Element	Source Material Lot #
P	1385912	U	1218502
S	1385910	W	1371115

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO 17034**, and **ISO/IEC 17025**. This CRM was prepared to the certified concentrations shown above by gravimetric methods, using single-element concentrates that were certified using the "High Performance ICP-OES" protocol developed by NIST and are directly traceable to **NIST SRMs (see reverse side)**. The solution was stabilized using high purity nitric acid (HNO_3), trace hydrofluoric acid (HF) and diluted with filtered (0.22 µm), 18 M-ohm deionized water. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentrations were determined based upon gravimetric procedures. Secondary verification of the certified concentrations was performed using ICP-OES that was calibrated and/or referenced against **NIST SRMs (see reverse side)**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

8 August 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

USA
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The Netherlands

Reagent

SS ADD Std6_00112

SS Add Std @ List 2 Std @ 112-117

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. : 570808.SEC **Lot No.:** A0211488

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 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	2-Propanol (isopropanol)	67-63-0.SEC	7B8ZE	99%	25,034.5 µg/mL	+/- 409.3621
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 *	S240508RSR	99%	2,510.5 µg/mL	+/- 41.0635
3	Methacrylonitrile	126-98-7 *	1012014	99%	25,008.5 µg/mL	+/- 408.9369
4	2,2,4-Trimethylpentane (Isooctane)	540-84-1.SEC	15069100	99%	2,506.0 µg/mL	+/- 40.9899
5	1-Butanol	71-36-3.SEC	LIE2D	99%	62,506.0 µg/mL	+/- 1,022.0862
6	2-Nitropropane	79-46-9.SEC	F43IA	99%	5,003.0 µg/mL	+/- 81.8086
7	1-Chlorohexane	544-10-5.SEC	15275100	99%	2,501.5 µg/mL	+/- 40.9163
8	1,2,3-Trimethylbenzene	526-73-8.SEC	13921700	98%	2,501.5 µg/mL	+/- 40.9155
9	Benzyl chloride	100-44-7.SEC	H29N03	99%	2,504.0 µg/mL	+/- 40.9572
10	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	2,506.0 µg/mL	+/- 40.9899

* 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:
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.)

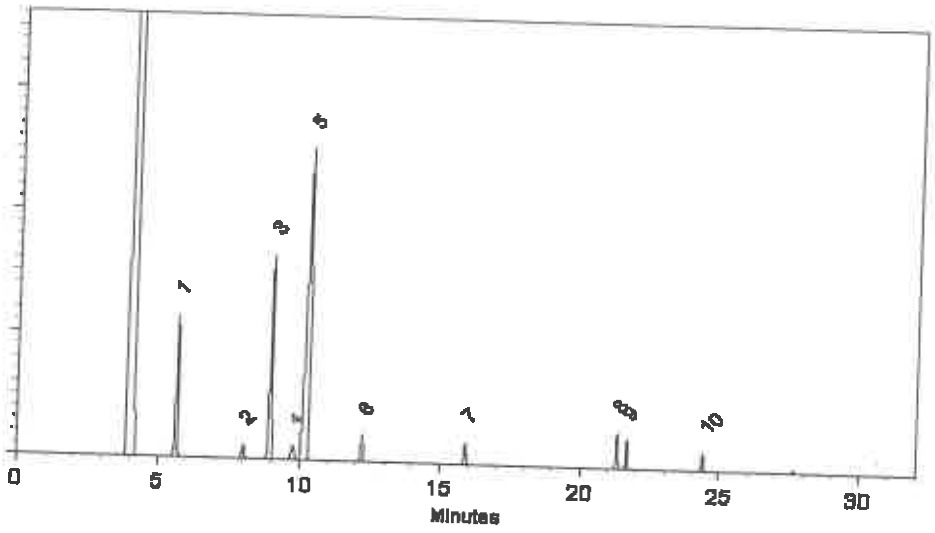
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 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.

Matt Fragassi - Mix Technician **Date Mixed:** 15-May-2024 **Balance Serial #** 1127510105

Jennifer Polino - Operations Tech III - ARM QC **Date Passed:** 17-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

SS ADD Std7_00107

SS Add Std 7 List 2 Std #7 107-112

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. : 570809.SEC **Lot No.:** A0211055

Description : 8260 List 2 / Std #7

8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 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	Ethyl acetate	141-78-6.SEC	C386A-GG	99%	5,030.5 µg/mL	+/- 173.8658
2	Ethyl acrylate	140-88-5.SEC	YIFAM-TG	99%	2,516.5 µg/mL	+/- 86.9818
3	Methyl methacrylate	80-62-6.SEC	G01X021	99%	5,026.5 µg/mL	+/- 173.7275
4	Butyl acetate	123-86-4.SEC	V2L2G-GT	99%	2,509.5 µg/mL	+/- 86.7398

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

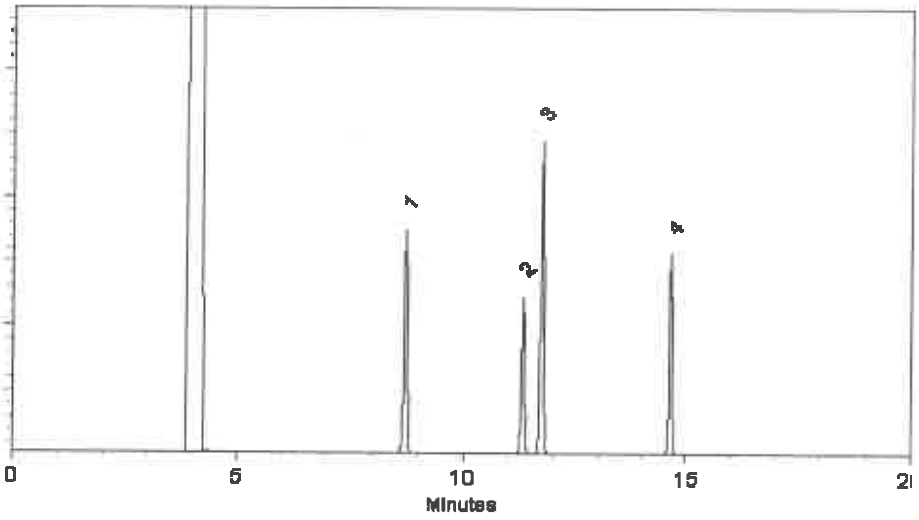
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1ml



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.

Ethan Winiarski - Operations Tech I

Date Mixed: 03-May-2024 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

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

WC_Phenol_S_00039

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Phenol Standard, 1000 ppm C_6H_5OH (0.100% (w/w))

Lot Number: 4306L74 **Product Number:** 5740

Manufacture Date: JUN 26, 2023
Expiration Date: JUN 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phenol	108-95-2	USP

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sodium Thiosulfate and Bromate-Bromide)	995-1005 ppm Phenol	1000 ppm Phenol	136

Specification	Reference
Stock Phenol Solution	APHA (5530 C)
Stock Phenol Solution	EPA (SW-846) (9065)
Stock Phenol	EPA (SW-846) (9066)
Stock Phenol Solution	EPA (420.1)
Phenol Solution, Stock	ASTM (D 1783 A & B)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5740-16	500 mL amber glass	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (06/26/2023)
Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Reagent

WC_Phenol_S_00046

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Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Phenol Standard, 1000 ppm C_6H_5OH (0.100% (w/w))

Lot Number: 4404H12 **Product Number:** 5740

Manufacture Date: APR 11, 2024
Expiration Date: DEC 2025

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Phenol	108-95-2	USP

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Sodium Thiosulfate and Bromate-Bromide)	995-1005 ppm Phenol	1002 ppm Phenol	136

Specification	Reference
Stock Phenol Solution	APHA (5530 C)
Stock Phenol Solution	EPA (SW-846) (9065)
Stock Phenol	EPA (SW-846) (9066)
Stock Phenol Solution	EPA (420.1)
Phenol Solution, Stock	ASTM (D 1783 A & B)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
5740-16	500 mL amber glass	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (04/11/2024)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

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Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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	#
INF-102324	480-224872-1	114		110		100	
CBT-102324	480-224872-2	115		112		100	
CBT-102324 DL	480-224872-2 DL	109	D	109	D	101	D
EFF-102324	480-224872-3	111		109		100	
EW-1R-102324	480-224872-4	112		109		102	
EW-2-102324	480-224872-5	114		111		99	
EW-2-102324-DUP	480-224872-6	117		114		103	
EW-3-102324	480-224872-7	113		110		98	
EW-3-102324-DUP	480-224872-8	114		110		100	
EW-4-102324	480-224872-9	110		110		99	
EW-5-102324	480-224872-10	118		114		99	
EW-6-102324	480-224872-11	114		112		101	
EW-7-102324	480-224872-12	113		113		101	
DPA-202-102324	480-224872-13	113		111		100	
LR-66-102324	480-224872-14	111		109		101	
OW-3-102324	480-224872-15	116		112		99	
OW-3-102324 DL	480-224872-15 DL	112	D	111	D	100	D
OW-5-102324	480-224872-16	115		110		100	
W-67L-102324	480-224872-17	114		115		102	
R-67-102324	480-224872-18	116		112		101	
W-67-102324	480-224872-19	116		114		102	
LR-67-102324	480-224872-20	115		114		102	
LR-67-102324 DL	480-224872-20 DL	112	D	110	D	102	D
LR-48-102324	480-224872-21	114		111		99	
R-48-102324	480-224872-22	115		113		99	
W-19B-102324	480-224872-23	115		113		97	
R-19-102324	480-224872-24	109		106		102	
LR-61-102424	480-224872-25	113		109		100	
LR-61-102424 DL	480-224872-25 DL	113	D	111	D	101	D
LR-51-102424	480-224872-26	114		113		100	
LR-50-102424	480-224872-27	115		111		100	
R-68-102424	480-224872-28	115		113		99	
L-16-102424	480-224872-29	116		114		99	
W-16L-102424	480-224872-30	113		113		101	

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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 #
R-16-102424	480-224872-31	111	108	99
W-16-102424	480-224872-32	116	113	101
W-66-102424	480-224872-33	114	113	101
W-66L-102424	480-224872-34	116	114	100
LR-20-102424	480-224872-35	112	111	97
W-20-102424	480-224872-36	112	111	100
LR-49-102424	480-224872-37	114	113	100
W-65-102424	480-224872-38	116	114	101
W-23C-102424	480-224872-39	112	111	99
W-70L-102424	480-224872-40	112	112	99
W-18L-102424	480-224872-41	116	115	100
W-18R-102424	480-224872-42	113	112	100
LR-62-102424	480-224872-43	112	111	100
R-60-102424	480-224872-44	112	112	99
R-60-102424-DUP	480-224872-45	113	112	98
R-80-102424	480-224872-46	113	113	101
IR-80-102424	480-224872-47	116	112	98
Trip Blank	480-224872-48	118	114	99
	MB 480-730076/8	108	107	97
	MB 480-730119/8	112	111	101
	MB 480-730274/8	110	110	103
	LCS 480-730076/6	108	106	103
	LCS 480-730119/6	111	107	104
	LCS 480-730274/6	107	107	103
EW-2-102324 MS	480-224872-5 MS	113	112	104
EW-3-102324 MS	480-224872-7 MS	110	107	102
LR-66-102324 MS	480-224872-14 MS	112	108	103
W-18L-102424 MS	480-224872-41 MS	108	108	101
EW-2-102324 MSD	480-224872-5 MSD	113	110	101
EW-3-102324 MSD	480-224872-7 MSD	112	109	105
LR-66-102324 MSD	480-224872-14 MSD	110	108	102
W-18L-102424 MSD	480-224872-41 MSD	110	108	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8339.d

Lab ID: LCS 480-730076/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	25.0	100	71-124	
Carbon disulfide	25.0	26.2	105	59-134	
Carbon tetrachloride	25.0	30.0	120	72-134	
Chlorobenzene	25.0	25.5	102	80-120	
Chloroform	25.0	25.6	103	73-127	
Methylene Chloride	25.0	25.0	100	75-124	
Tetrachloroethene	25.0	27.5	110	74-122	
Toluene	25.0	24.6	98	80-122	
Trichloroethene	25.0	26.8	107	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8374.d

Lab ID: LCS 480-730119/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	24.6	98	71-124	
Carbon disulfide	25.0	25.2	101	59-134	
Carbon tetrachloride	25.0	30.0	120	72-134	
Chlorobenzene	25.0	25.1	101	80-120	
Chloroform	25.0	25.9	104	73-127	
Methylene Chloride	25.0	25.5	102	75-124	
Tetrachloroethene	25.0	26.8	107	74-122	
Toluene	25.0	24.8	99	80-122	
Trichloroethene	25.0	26.8	107	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8408.d

Lab ID: LCS 480-730274/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	25.0	25.3	101	71-124	
Carbon disulfide	25.0	25.8	103	59-134	
Carbon tetrachloride	25.0	30.2	121	72-134	
Chlorobenzene	25.0	26.1	105	80-120	
Chloroform	25.0	25.8	103	73-127	
Methylene Chloride	25.0	25.5	102	75-124	
Tetrachloroethene	25.0	28.6	114	74-122	
Toluene	25.0	25.0	100	80-122	
Trichloroethene	25.0	26.3	105	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8365.d

Lab ID: 480-224872-5 MS Client ID: EW-2-102324 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	25.0	0.41 U	28.3	113	71-124	
Carbon disulfide	25.0	11	30.1	76	59-134	
Carbon tetrachloride	25.0	49	88.3	158	72-134	F1
Chlorobenzene	25.0	0.75 U	29.0	116	80-120	
Chloroform	25.0	38	67.9	118	73-127	
Methylene Chloride	25.0	2.8	32.2	117	75-124	
Tetrachloroethene	25.0	3.5	34.7	125	74-122	F1
Toluene	25.0	0.51 U	27.8	111	80-122	
Trichloroethene	25.0	2.0	32.5	122	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8367.d

Lab ID: 480-224872-7 MS Client ID: EW-3-102324 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	1250	21 U	1190	95	71-124	
Carbon disulfide	1250	200	1350	92	59-134	
Carbon tetrachloride	1250	1700	3250	123	72-134	
Chlorobenzene	1250	38 U	1250	100	80-120	
Chloroform	1250	820	2150	107	73-127	
Methylene Chloride	1250	43 J	1300	101	75-124	
Tetrachloroethene	1250	24 J	1310	103	74-122	
Toluene	1250	26 U	1200	96	80-122	
Trichloroethene	1250	75	1370	103	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8430.d

Lab ID: 480-224872-14 MS Client ID: LR-66-102324 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	1000	16 U	971	97	71-124	
Carbon disulfide	1000	7.6 U	1000	100	59-134	
Carbon tetrachloride	1000	2000	2680	68	72-134	F1
Chlorobenzene	1000	30 U	986	99	80-120	
Chloroform	1000	330	1280	94	73-127	
Methylene Chloride	1000	18 U	1040	104	75-124	
Tetrachloroethene	1000	89	1110	102	74-122	
Toluene	1000	20 U	946	95	80-122	
Trichloroethene	1000	18 U	1050	105	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8402.d

Lab ID: 480-224872-41 MS Client ID: W-18L-102424 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	1000	16 U	960	96	71-124	
Carbon disulfide	1000	7.6 U	955	95	59-134	
Carbon tetrachloride	1000	940	1980	104	72-134	
Chlorobenzene	1000	30 U	979	98	80-120	
Chloroform	1000	1000	1870	85	73-127	
Methylene Chloride	1000	18 U	1000	100	75-124	
Tetrachloroethene	1000	87	1090	100	74-122	
Toluene	1000	20 U	942	94	80-122	
Trichloroethene	1000	65	1080	101	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8366.d

Lab ID: 480-224872-5 MSD Client ID: EW-2-102324 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	25.0	26.7	107	6	13	71-124	
Carbon disulfide	25.0	27.6	66	9	15	59-134	
Carbon tetrachloride	25.0	86.9	153	2	15	72-134	F1
Chlorobenzene	25.0	27.1	108	7	25	80-120	
Chloroform	25.0	67.2	115	1	20	73-127	
Methylene Chloride	25.0	30.6	111	5	15	75-124	
Tetrachloroethene	25.0	33.1	118	5	20	74-122	
Toluene	25.0	25.6	102	8	15	80-122	
Trichloroethene	25.0	31.3	117	4	16	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8368.d

Lab ID: 480-224872-7 MSD Client ID: EW-3-102324 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	1250	1270	101	6	13	71-124	
Carbon disulfide	1250	1470	102	9	15	59-134	
Carbon tetrachloride	1250	3430	138	6	15	72-134	F1
Chlorobenzene	1250	1270	101	1	25	80-120	
Chloroform	1250	2260	115	5	20	73-127	
Methylene Chloride	1250	1360	105	4	15	75-124	
Tetrachloroethene	1250	1390	109	6	20	74-122	
Toluene	1250	1250	100	4	15	80-122	
Trichloroethene	1250	1430	108	4	16	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8431.d

Lab ID: 480-224872-14 MSD Client ID: LR-66-102324 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	1000	995	99	2	13	71-124	
Carbon disulfide	1000	1040	104	4	15	59-134	
Carbon tetrachloride	1000	2790	78	4	15	72-134	
Chlorobenzene	1000	1020	102	3	25	80-120	
Chloroform	1000	1300	96	2	20	73-127	
Methylene Chloride	1000	1040	104	0	15	75-124	
Tetrachloroethene	1000	1170	108	5	20	74-122	
Toluene	1000	984	98	4	15	80-122	
Trichloroethene	1000	1070	107	2	16	74-123	

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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: D8403.d

Lab ID: 480-224872-41 MSD Client ID: W-18L-102424 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	1000	995	100	4	13	71-124	
Carbon disulfide	1000	1020	102	7	15	59-134	
Carbon tetrachloride	1000	2110	116	6	15	72-134	
Chlorobenzene	1000	984	98	1	25	80-120	
Chloroform	1000	1920	89	2	20	73-127	
Methylene Chloride	1000	1050	105	4	15	75-124	
Tetrachloroethene	1000	1140	106	5	20	74-122	
Toluene	1000	974	97	3	15	80-122	
Trichloroethene	1000	1130	107	5	16	74-123	

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.: 480-224872-1

SDG No.:

Lab File ID: D8341.d Lab Sample ID: MB 480-730076/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5975D Date Analyzed: 10/28/2024 13:22

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 480-730076/6	D8339.d	10/28/2024 12:38
INF-102324	480-224872-1	D8342.d	10/28/2024 13:47
CBT-102324	480-224872-2	D8343.d	10/28/2024 14:08
EFF-102324	480-224872-3	D8344.d	10/28/2024 14:30
EW-1R-102324	480-224872-4	D8345.d	10/28/2024 14:52
EW-2-102324	480-224872-5	D8346.d	10/28/2024 15:16
EW-2-102324-DUP	480-224872-6	D8347.d	10/28/2024 15:38
EW-3-102324	480-224872-7	D8348.d	10/28/2024 16:00
EW-3-102324-DUP	480-224872-8	D8349.d	10/28/2024 16:22
EW-4-102324	480-224872-9	D8350.d	10/28/2024 16:44
EW-5-102324	480-224872-10	D8351.d	10/28/2024 17:06
EW-6-102324	480-224872-11	D8352.d	10/28/2024 17:28
EW-7-102324	480-224872-12	D8353.d	10/28/2024 17:50
OW-3-102324	480-224872-15	D8356.d	10/28/2024 18:57
R-67-102324	480-224872-18	D8359.d	10/28/2024 20:03
W-67-102324	480-224872-19	D8360.d	10/28/2024 20:25
LR-67-102324	480-224872-20	D8361.d	10/28/2024 20:47
LR-48-102324	480-224872-21	D8362.d	10/28/2024 21:09
R-48-102324	480-224872-22	D8363.d	10/28/2024 21:31
W-19B-102324	480-224872-23	D8364.d	10/28/2024 21:53
EW-2-102324 MS	480-224872-5 MS	D8365.d	10/28/2024 22:16
EW-2-102324 MSD	480-224872-5 MSD	D8366.d	10/28/2024 22:38
EW-3-102324 MS	480-224872-7 MS	D8367.d	10/28/2024 23:00
EW-3-102324 MSD	480-224872-7 MSD	D8368.d	10/28/2024 23:22

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D8376.d Lab Sample ID: MB 480-730119/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5975D Date Analyzed: 10/29/2024 02:19

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 480-730119/6	D8374.d	10/29/2024 01:35
R-19-102324	480-224872-24	D8377.d	10/29/2024 02:41
LR-61-102424	480-224872-25	D8378.d	10/29/2024 03:03
LR-51-102424	480-224872-26	D8379.d	10/29/2024 03:25
R-68-102424	480-224872-28	D8381.d	10/29/2024 04:10
R-16-102424	480-224872-31	D8384.d	10/29/2024 05:16
W-66-102424	480-224872-33	D8386.d	10/29/2024 06:00
W-66L-102424	480-224872-34	D8387.d	10/29/2024 06:22
LR-20-102424	480-224872-35	D8388.d	10/29/2024 06:45
W-20-102424	480-224872-36	D8389.d	10/29/2024 07:07
LR-49-102424	480-224872-37	D8390.d	10/29/2024 07:29
W-65-102424	480-224872-38	D8391.d	10/29/2024 07:51
W-23C-102424	480-224872-39	D8392.d	10/29/2024 08:13
W-70L-102424	480-224872-40	D8393.d	10/29/2024 08:35
W-18L-102424	480-224872-41	D8394.d	10/29/2024 08:58
W-18R-102424	480-224872-42	D8395.d	10/29/2024 09:20
R-60-102424	480-224872-44	D8397.d	10/29/2024 10:04
R-60-102424-DUP	480-224872-45	D8398.d	10/29/2024 10:26
R-80-102424	480-224872-46	D8399.d	10/29/2024 10:48
Trip Blank	480-224872-48	D8401.d	10/29/2024 11:33
W-18L-102424 MS	480-224872-41 MS	D8402.d	10/29/2024 11:55
W-18L-102424 MSD	480-224872-41 MSD	D8403.d	10/29/2024 12:17

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D8410.d Lab Sample ID: MB 480-730274/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: HP5975D Date Analyzed: 10/29/2024 14:55

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 480-730274/6	D8408.d	10/29/2024 14:11
CBT-102324 DL	480-224872-2 DL	D8416.d	10/29/2024 17:30
DPA-202-102324	480-224872-13	D8417.d	10/29/2024 17:52
LR-66-102324	480-224872-14	D8418.d	10/29/2024 18:14
OW-3-102324 DL	480-224872-15 DL	D8419.d	10/29/2024 18:37
OW-5-102324	480-224872-16	D8420.d	10/29/2024 18:59
W-67L-102324	480-224872-17	D8421.d	10/29/2024 19:21
LR-67-102324 DL	480-224872-20 DL	D8422.d	10/29/2024 19:43
LR-61-102424 DL	480-224872-25 DL	D8423.d	10/29/2024 20:05
LR-50-102424	480-224872-27	D8424.d	10/29/2024 20:27
L-16-102424	480-224872-29	D8425.d	10/29/2024 20:49
W-16L-102424	480-224872-30	D8426.d	10/29/2024 21:11
W-16-102424	480-224872-32	D8427.d	10/29/2024 21:33
LR-62-102424	480-224872-43	D8428.d	10/29/2024 21:55
IR-80-102424	480-224872-47	D8429.d	10/29/2024 22:18
LR-66-102324 MS	480-224872-14 MS	D8430.d	10/29/2024 22:40
LR-66-102324 MSD	480-224872-14 MSD	D8431.d	10/29/2024 23:02

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D6832.d BFB Injection Date: 09/19/2024

Instrument ID: HP5975D BFB Injection Time: 14:41

Analysis Batch No.: 725605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.0	
75	30.0 - 60.0 % of mass 95	46.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	90.6	
175	5.0 - 9.0 % of mass 174	7.3	(8.1) 1
176	95.0 - 101.0 % of mass 174	89.9	(99.3) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.6) 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 480-725605/16	D6837.d	09/19/2024	16:33
	IC 480-725605/17	D6838.d	09/19/2024	16:55
	ICIS 480-725605/18	D6839.d	09/19/2024	17:18
	IC 480-725605/19	D6840.d	09/19/2024	17:40
	IC 480-725605/20	D6841.d	09/19/2024	18:02
	IC 480-725605/25	D6846.d	09/19/2024	19:52
	IC 480-725605/26	D6847.d	09/19/2024	20:15
	IC 480-725605/27	D6848.d	09/19/2024	20:37
	IC 480-725605/28	D6849.d	09/19/2024	20:59
	IC 480-725605/29	D6850.d	09/19/2024	21:21
	IC 480-725605/30	D6851.d	09/19/2024	21:43
	IC 480-725605/31	D6852.d	09/19/2024	22:05
	ICV 480-725605/34	D6855.d	09/19/2024	23:11
	ICV 480-725605/35	D6856.d	09/19/2024	23:34
	IC 480-725605/47	D6858.d	09/20/2024	0:18
	IC 480-725605/48	D6859.d	09/20/2024	0:40
	IC 480-725605/49	D6860.d	09/20/2024	1:02

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D8336.d BFB Injection Date: 10/28/2024

Instrument ID: HP5975D BFB Injection Time: 11:31

Analysis Batch No.: 730076

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.6
75	30.0 - 60.0 % of mass 95	46.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	94.9
175	5.0 - 9.0 % of mass 174	7.3 (7.7) 1
176	95.0 - 101.0 % of mass 174	95.3 (100.4) 1
177	5.0 - 9.0 % of mass 176	6.3 (6.6) 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 480-730076/4	D8337.d	10/28/2024	11:53
	LCS 480-730076/6	D8339.d	10/28/2024	12:38
	MB 480-730076/8	D8341.d	10/28/2024	13:22
INF-102324	480-224872-1	D8342.d	10/28/2024	13:47
CBT-102324	480-224872-2	D8343.d	10/28/2024	14:08
EFF-102324	480-224872-3	D8344.d	10/28/2024	14:30
EW-1R-102324	480-224872-4	D8345.d	10/28/2024	14:52
EW-2-102324	480-224872-5	D8346.d	10/28/2024	15:16
EW-2-102324-DUP	480-224872-6	D8347.d	10/28/2024	15:38
EW-3-102324	480-224872-7	D8348.d	10/28/2024	16:00
EW-3-102324-DUP	480-224872-8	D8349.d	10/28/2024	16:22
EW-4-102324	480-224872-9	D8350.d	10/28/2024	16:44
EW-5-102324	480-224872-10	D8351.d	10/28/2024	17:06
EW-6-102324	480-224872-11	D8352.d	10/28/2024	17:28
EW-7-102324	480-224872-12	D8353.d	10/28/2024	17:50
OW-3-102324	480-224872-15	D8356.d	10/28/2024	18:57
R-67-102324	480-224872-18	D8359.d	10/28/2024	20:03
W-67-102324	480-224872-19	D8360.d	10/28/2024	20:25
LR-67-102324	480-224872-20	D8361.d	10/28/2024	20:47
LR-48-102324	480-224872-21	D8362.d	10/28/2024	21:09
R-48-102324	480-224872-22	D8363.d	10/28/2024	21:31
W-19B-102324	480-224872-23	D8364.d	10/28/2024	21:53
EW-2-102324 MS	480-224872-5 MS	D8365.d	10/28/2024	22:16
EW-2-102324 MSD	480-224872-5 MSD	D8366.d	10/28/2024	22:38
EW-3-102324 MS	480-224872-7 MS	D8367.d	10/28/2024	23:00
EW-3-102324 MSD	480-224872-7 MSD	D8368.d	10/28/2024	23:22

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D8371.d BFB Injection Date: 10/29/2024

Instrument ID: HP5975D BFB Injection Time: 00:28

Analysis Batch No.: 730119

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	21.7
75	30.0 - 60.0 % of mass 95	47.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	96.0
175	5.0 - 9.0 % of mass 174	7.4 (7.7) 1
176	95.0 - 101.0 % of mass 174	96.3 (100.2) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.5) 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 480-730119/4	D8372.d	10/29/2024	0:51
	LCS 480-730119/6	D8374.d	10/29/2024	1:35
	MB 480-730119/8	D8376.d	10/29/2024	2:19
R-19-102324	480-224872-24	D8377.d	10/29/2024	2:41
LR-61-102424	480-224872-25	D8378.d	10/29/2024	3:03
LR-51-102424	480-224872-26	D8379.d	10/29/2024	3:25
R-68-102424	480-224872-28	D8381.d	10/29/2024	4:10
R-16-102424	480-224872-31	D8384.d	10/29/2024	5:16
W-66-102424	480-224872-33	D8386.d	10/29/2024	6:00
W-66L-102424	480-224872-34	D8387.d	10/29/2024	6:22
LR-20-102424	480-224872-35	D8388.d	10/29/2024	6:45
W-20-102424	480-224872-36	D8389.d	10/29/2024	7:07
LR-49-102424	480-224872-37	D8390.d	10/29/2024	7:29
W-65-102424	480-224872-38	D8391.d	10/29/2024	7:51
W-23C-102424	480-224872-39	D8392.d	10/29/2024	8:13
W-70L-102424	480-224872-40	D8393.d	10/29/2024	8:35
W-18L-102424	480-224872-41	D8394.d	10/29/2024	8:58
W-18R-102424	480-224872-42	D8395.d	10/29/2024	9:20
R-60-102424	480-224872-44	D8397.d	10/29/2024	10:04
R-60-102424-DUP	480-224872-45	D8398.d	10/29/2024	10:26
R-80-102424	480-224872-46	D8399.d	10/29/2024	10:48
Trip Blank	480-224872-48	D8401.d	10/29/2024	11:33
W-18L-102424 MS	480-224872-41 MS	D8402.d	10/29/2024	11:55
W-18L-102424 MSD	480-224872-41 MSD	D8403.d	10/29/2024	12:17

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab File ID: D8405.d BFB Injection Date: 10/29/2024

Instrument ID: HP5975D BFB Injection Time: 12:57

Analysis Batch No.: 730274

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	96.1	
175	5.0 - 9.0 % of mass 174	7.2	(7.5) 1
176	95.0 - 101.0 % of mass 174	95.1	(99.0) 1
177	5.0 - 9.0 % of mass 176	6.6	(6.9) 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 480-730274/4	D8406.d	10/29/2024	13:26
	LCS 480-730274/6	D8408.d	10/29/2024	14:11
	MB 480-730274/8	D8410.d	10/29/2024	14:55
CBT-102324 DL	480-224872-2 DL	D8416.d	10/29/2024	17:30
DPA-202-102324	480-224872-13	D8417.d	10/29/2024	17:52
LR-66-102324	480-224872-14	D8418.d	10/29/2024	18:14
OW-3-102324 DL	480-224872-15 DL	D8419.d	10/29/2024	18:37
OW-5-102324	480-224872-16	D8420.d	10/29/2024	18:59
W-67L-102324	480-224872-17	D8421.d	10/29/2024	19:21
LR-67-102324 DL	480-224872-20 DL	D8422.d	10/29/2024	19:43
LR-61-102424 DL	480-224872-25 DL	D8423.d	10/29/2024	20:05
LR-50-102424	480-224872-27	D8424.d	10/29/2024	20:27
L-16-102424	480-224872-29	D8425.d	10/29/2024	20:49
W-16L-102424	480-224872-30	D8426.d	10/29/2024	21:11
W-16-102424	480-224872-32	D8427.d	10/29/2024	21:33
LR-62-102424	480-224872-43	D8428.d	10/29/2024	21:55
IR-80-102424	480-224872-47	D8429.d	10/29/2024	22:18
LR-66-102324 MS	480-224872-14 MS	D8430.d	10/29/2024	22:40
LR-66-102324 MSD	480-224872-14 MSD	D8431.d	10/29/2024	23:02

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Sample No.: ICIS 480-725605/18 Date Analyzed: 09/19/2024 17:18

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D6839.d Heated Purge: (Y/N) N

Calibration ID: 47313

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		171768	4.75	336464	7.10	363759	9.00
UPPER LIMIT		343536	4.92	672928	7.27	727518	9.17
LOWER LIMIT		85884	4.58	168232	6.94	181880	8.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-725605/34		179361	4.75	345229	7.10	378150	9.00
ICV 480-725605/35		176490	4.75	355064	7.10	396730	9.00
CCVIS 480-730076/4		96550	4.73	191630	7.08	216359	8.99
CCVIS 480-730119/4		96896	4.74	191791	7.09	222143	9.00
CCVIS 480-730274/4		96061	4.74	196133	7.10	228630	9.00

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.: 480-224872-1

SDG No.:

Sample No.: CCVIS 480-730076/4 Date Analyzed: 10/28/2024 11:53

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D8337.d Heated Purge: (Y/N) N

Calibration ID: 47316

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		96550	4.73	191630	7.08	216359	8.99
UPPER LIMIT		193100	4.90	383260	7.25	432718	9.16
LOWER LIMIT		48275	4.56	95815	6.92	108180	8.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730076/6		96257	4.73	193990	7.08	228474	8.99
MB 480-730076/8		105870	4.73	230491	7.08	254666	8.99
480-224872-1	INF-102324	101072	4.74	209698	7.08	252378	8.99
480-224872-2	CBT-102324	98847	4.74	205148	7.09	247490	8.99
480-224872-3	EFF-102324	102528	4.74	212176	7.09	249173	8.99
480-224872-4	EW-1R-102324	101197	4.74	204695	7.09	244087	8.99
480-224872-5	EW-2-102324	99208	4.74	216428	7.09	241853	8.99
480-224872-6	EW-2-102324-DUP	95738	4.74	192326	7.09	230534	8.99
480-224872-7	EW-3-102324	98572	4.74	213892	7.09	233909	8.99
480-224872-8	EW-3-102324-DUP	98393	4.74	208591	7.09	241556	8.99
480-224872-9	EW-4-102324	100637	4.74	211365	7.09	243197	8.99
480-224872-10	EW-5-102324	94707	4.74	200845	7.09	239887	8.99
480-224872-11	EW-6-102324	96783	4.74	193447	7.09	226353	8.99
480-224872-12	EW-7-102324	96147	4.74	191226	7.09	227754	8.99
480-224872-15	OW-3-102324	87964	4.74	187234	7.09	225189	8.99
480-224872-18	R-67-102324	94744	4.74	190407	7.09	226040	8.99
480-224872-19	W-67-102324	94259	4.74	203946	7.09	234736	9.00
480-224872-20	LR-67-102324	92008	4.74	190019	7.09	225791	9.00
480-224872-21	LR-48-102324	94766	4.74	200795	7.09	230304	8.99
480-224872-22	R-48-102324	92246	4.74	195397	7.09	224630	8.99
480-224872-23	W-19B-102324	92828	4.74	202159	7.09	229617	8.99
480-224872-5 MS	EW-2-102324 MS	87768	4.74	181152	7.09	215707	9.00
480-224872-5 MSD	EW-2-102324 MSD	88172	4.74	186104	7.09	217486	9.00
480-224872-7 MS	EW-3-102324 MS	91999	4.74	186378	7.09	219199	8.99
480-224872-7 MSD	EW-3-102324 MSD	91612	4.74	183985	7.09	213664	9.00

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.: 480-224872-1

SDG No.:

Sample No.: CCVIS 480-730119/4 Date Analyzed: 10/29/2024 00:51

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D8372.d Heated Purge: (Y/N) N

Calibration ID: 47316

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		96896	4.74	191791	7.09	222143	9.00
UPPER LIMIT		193792	4.90	383582	7.26	444286	9.17
LOWER LIMIT		48448	4.57	95896	6.92	111072	8.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730119/6		94270	4.74	187785	7.09	216790	9.00
MB 480-730119/8		98309	4.74	206912	7.09	247321	9.00
480-224872-24	R-19-102324	98011	4.74	195878	7.09	231175	9.00
480-224872-25	LR-61-102424	98510	4.74	211245	7.09	238204	9.00
480-224872-26	LR-51-102424	97431	4.74	207346	7.09	238774	9.00
480-224872-28	R-68-102424	95999	4.74	207262	7.09	234591	9.00
480-224872-31	R-16-102424	97718	4.74	201360	7.09	235268	9.00
480-224872-33	W-66-102424	95965	4.74	201586	7.09	236565	9.00
480-224872-34	W-66L-102424	93383	4.74	192832	7.09	228522	9.00
480-224872-35	LR-20-102424	98721	4.74	212678	7.09	235080	9.00
480-224872-36	W-20-102424	96342	4.74	199799	7.09	234352	9.00
480-224872-37	LR-49-102424	96027	4.74	205865	7.09	235690	9.00
480-224872-38	W-65-102424	93299	4.74	196579	7.09	232768	9.00
480-224872-39	W-23C-102424	96551	4.74	211515	7.09	234190	9.00
480-224872-40	W-70L-102424	95714	4.74	201841	7.09	235886	9.00
480-224872-41	W-18L-102424	93404	4.74	197052	7.09	235357	9.00
480-224872-42	W-18R-102424	96096	4.74	200291	7.09	236261	9.00
480-224872-44	R-60-102424	95724	4.74	205213	7.09	231664	9.00
480-224872-45	R-60-102424-DUP	95951	4.74	206012	7.09	235131	9.00
480-224872-46	R-80-102424	94323	4.74	193962	7.09	224640	9.00
480-224872-48	Trip Blank	93285	4.74	202013	7.09	234283	9.00
480-224872-41 MS	W-18L-102424 MS	93624	4.74	192235	7.09	224031	9.00
480-224872-41 MSD	W-18L-102424 MSD	91263	4.74	187502	7.09	217008	9.00

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.: 480-224872-1

SDG No.:

Sample No.: CCVIS 480-730274/4 Date Analyzed: 10/29/2024 13:26

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): D8406.d Heated Purge: (Y/N) N

Calibration ID: 47316

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		96061	4.74	196133	7.10	228630	9.00
UPPER LIMIT		192122	4.91	392266	7.26	457260	9.16
LOWER LIMIT		48031	4.58	98067	6.93	114315	8.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-730274/6		94980	4.74	187123	7.10	220584	9.00
MB 480-730274/8		100274	4.74	202209	7.10	238117	9.00
480-224872-2 DL	CBT-102324 DL	101168	4.74	211516	7.10	237097	9.00
480-224872-13	DPA-202-102324	98237	4.74	208070	7.10	237787	9.00
480-224872-14	LR-66-102324	98893	4.75	198878	7.10	234318	9.00
480-224872-15 DL	OW-3-102324 DL	97910	4.74	204504	7.10	238130	9.00
480-224872-16	OW-5-102324	95939	4.74	197403	7.10	233125	9.00
480-224872-17	W-67L-102324	95259	4.74	190480	7.10	231506	9.00
480-224872-20 DL	LR-67-102324 DL	95299	4.74	189366	7.10	225904	9.00
480-224872-25 DL	LR-61-102424 DL	96654	4.74	195590	7.10	234573	9.00
480-224872-27	LR-50-102424	95424	4.74	198010	7.10	233651	9.00
480-224872-29	L-16-102424	94286	4.74	202419	7.10	234941	9.00
480-224872-30	W-16L-102424	96009	4.74	196626	7.10	238318	9.00
480-224872-32	W-16-102424	93115	4.74	195771	7.10	232753	9.00
480-224872-43	LR-62-102424	97951	4.74	208836	7.10	239484	9.00
480-224872-47	IR-80-102424	94362	4.74	204623	7.10	233703	9.00
480-224872-14 MS	LR-66-102324 MS	92430	4.74	189278	7.10	223286	9.00
480-224872-14 MSD	LR-66-102324 MSD	91847	4.74	182913	7.10	215774	9.00

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.: 480-224872-1

SDG No.:

Client Sample ID: INF-102324 | Lab Sample ID: 480-224872-1

Matrix: Water | Lab File ID: D8342.d

Analysis Method: 8260C | Date Collected: 10/23/2024 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 13:47

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	16	U	40	16
75-15-0	Carbon disulfide	1800		40	7.6
56-23-5	Carbon tetrachloride	2600		40	11
108-90-7	Chlorobenzene	30	U	40	30
67-66-3	Chloroform	1200		40	14
75-09-2	Methylene Chloride	100		40	18
127-18-4	Tetrachloroethene	46		40	14
108-88-3	Toluene	20	U	40	20
79-01-6	Trichloroethene	78		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d
Lims ID: 480-224872-A-1
Client ID: INF-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 13:47:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-1
Misc. Info.: 480-0120860-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:17:41 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:17:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	101072	25.0	
* 2 Chlorobenzene-d5	82	7.083	7.083	0.000	87	209698	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	94	252378	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.248	0.007	93	185110	28.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.505	4.504	0.001	99	101749	27.6	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	506736	25.0	
26 Carbon disulfide	76	2.517	2.511	0.006	100	682157	44.9	
30 Methylene Chloride	84	2.810	2.804	0.006	96	17334	2.61	
50 Chloroform	83	4.120	4.120	0.000	95	285617	29.5	
55 Carbon tetrachloride	117	4.334	4.334	0.000	97	456876	65.3	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	95	10127	1.96	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.407	6.406	0.001	92	6432	1.15	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

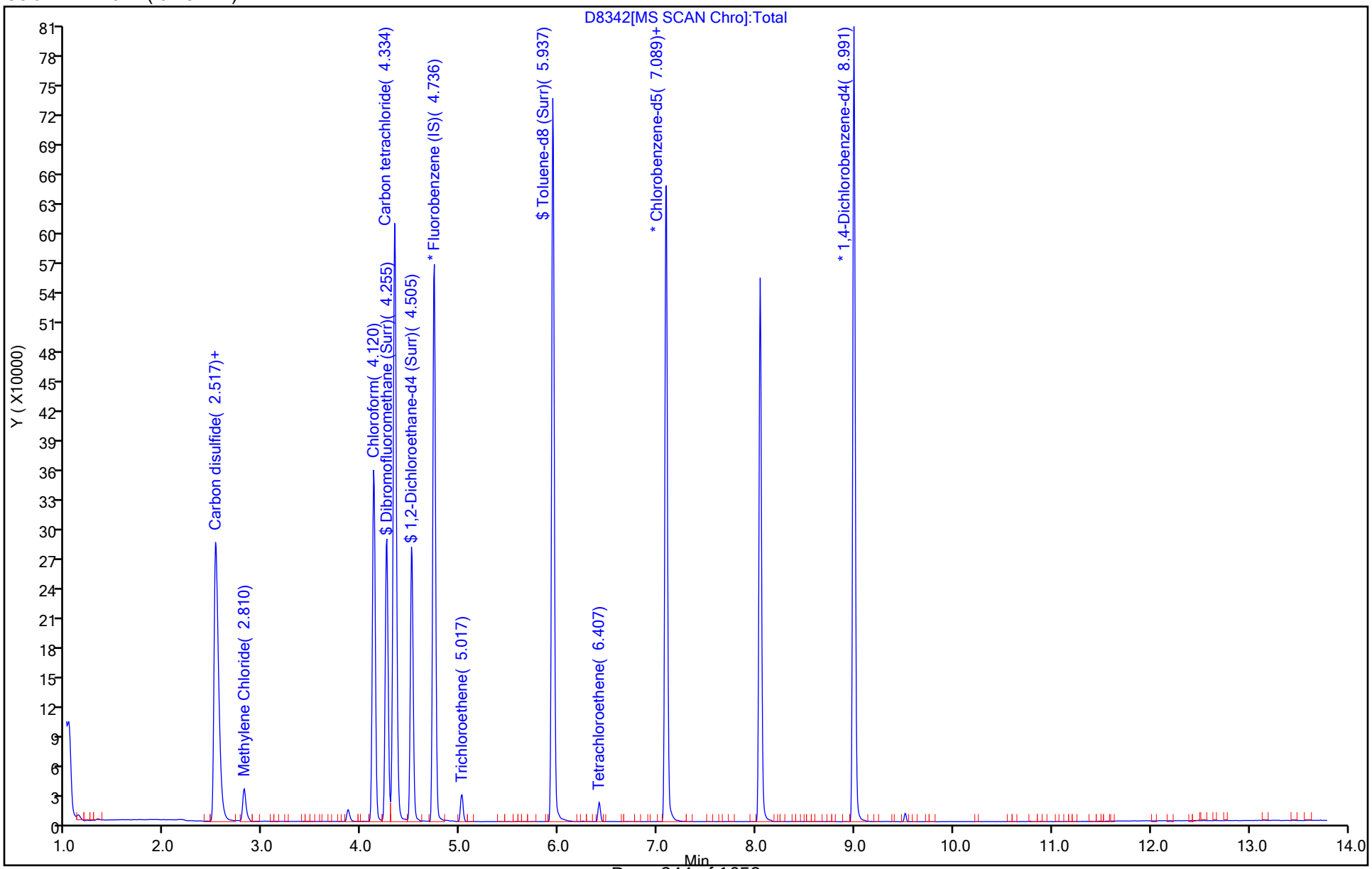
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d

Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1	Worklist Smp#:	9
Client ID:	INF-102324				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	7
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d				
Lims ID:	480-224872-A-1				
Client ID:	INF-102324				
Sample Type:	Client				
Inject. Date:	28-Oct-2024 13:47:30	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Sample Info:	480-224872-A-1				
Misc. Info.:	480-0120860-009				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Oct-2024 16:17:41	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1637				

First Level Reviewer: R3QB Date: 28-Oct-2024 16:17:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.5	113.94
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.44
$ 5 Toluene-d8 (Surr)	25.0	25.0	100.16

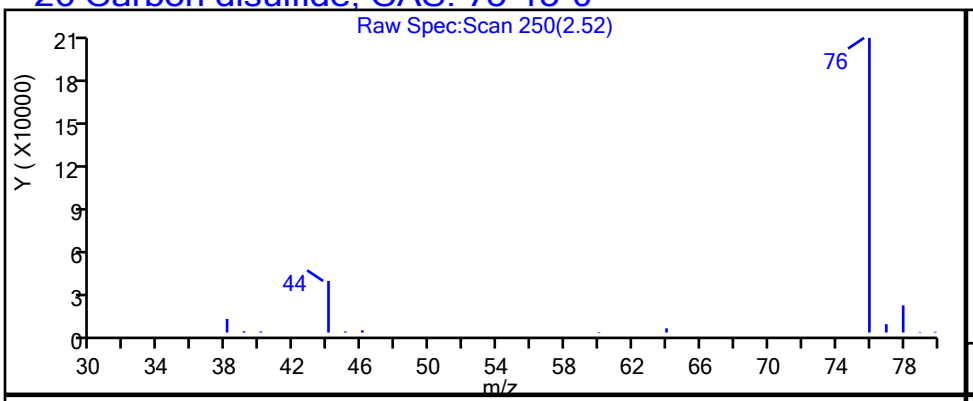
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

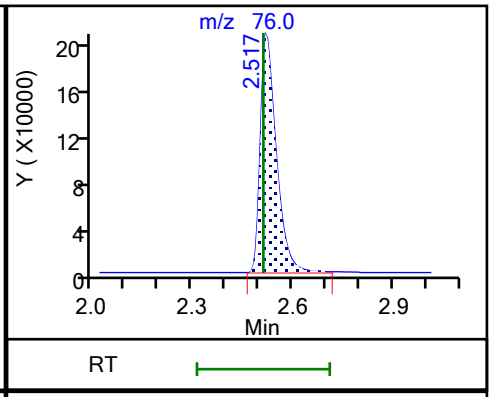
Eurofins Buffalo

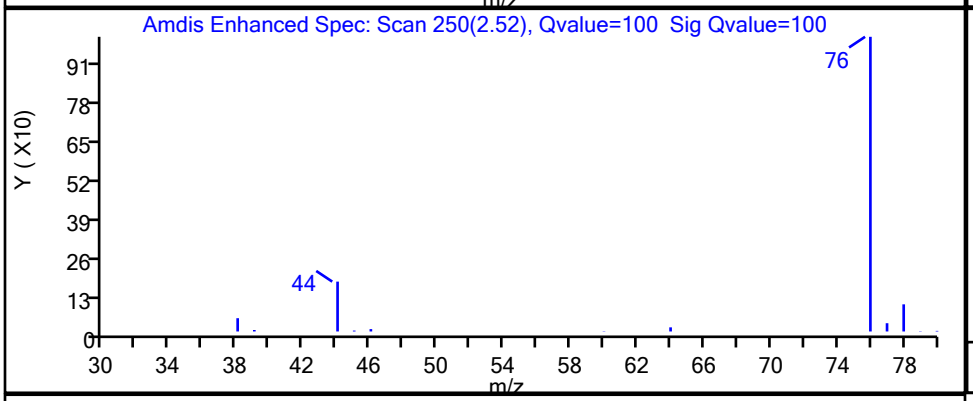
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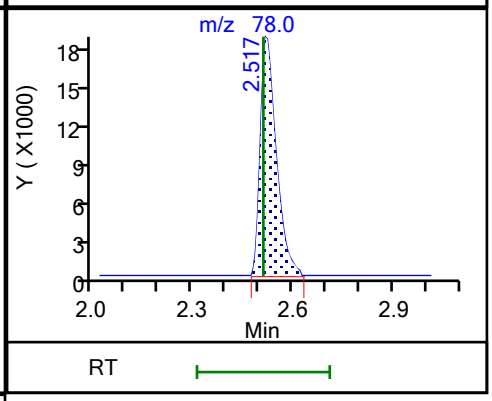
Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1
Client ID:	INF-102324		
Operator ID:	AK	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

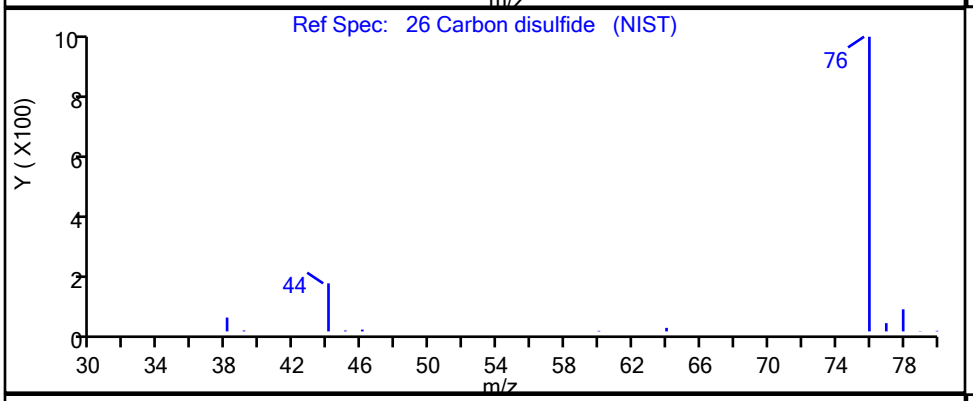
26 Carbon disulfide, CAS: 75-15-0

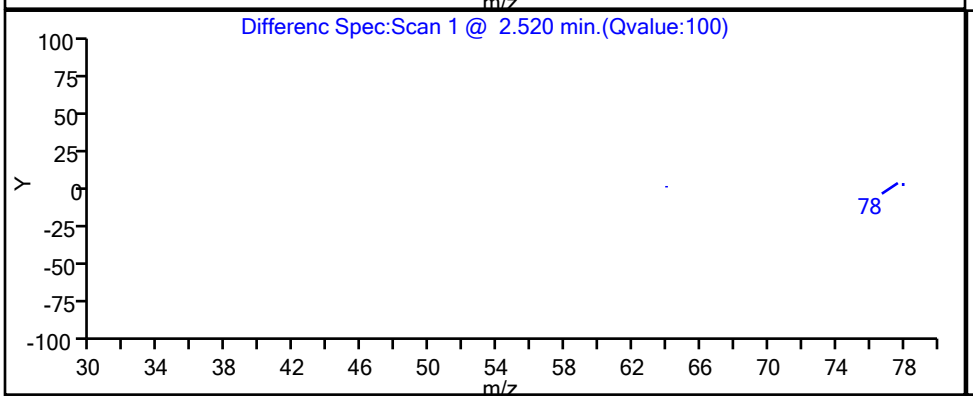


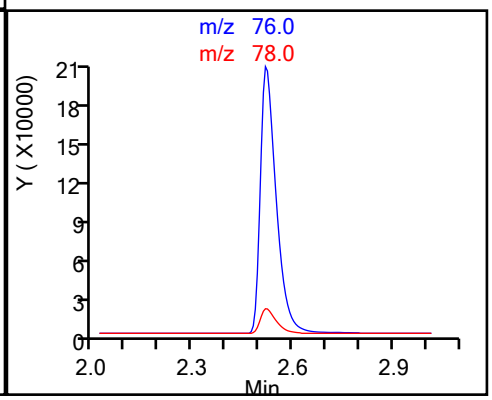












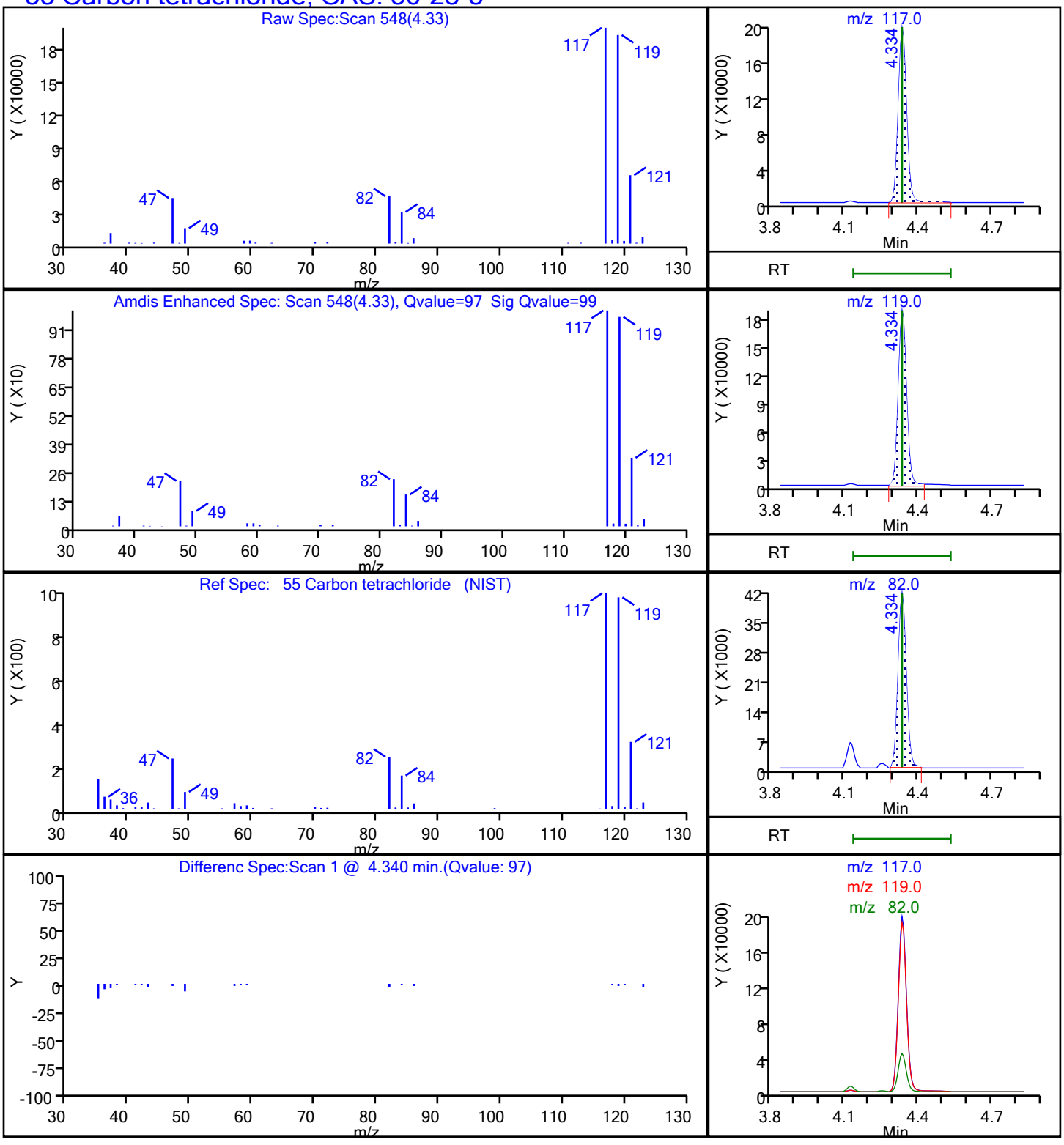
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d

Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1		
Client ID:	INF-102324				
Operator ID:	AK	ALS Bottle#:	7	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



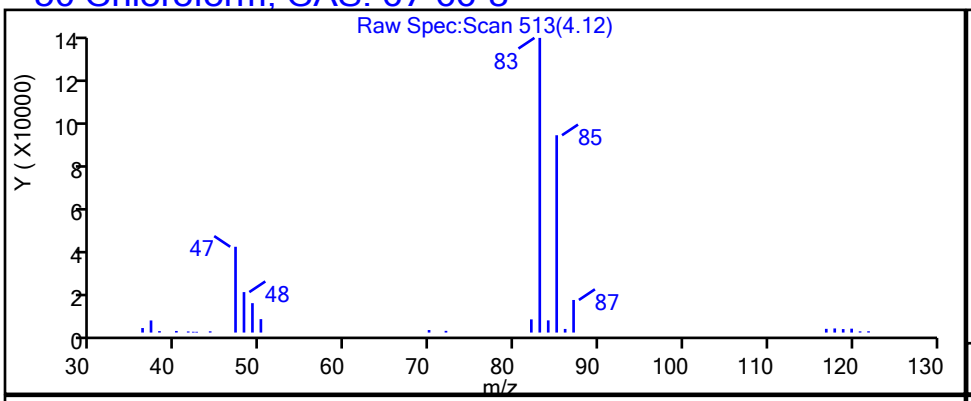
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

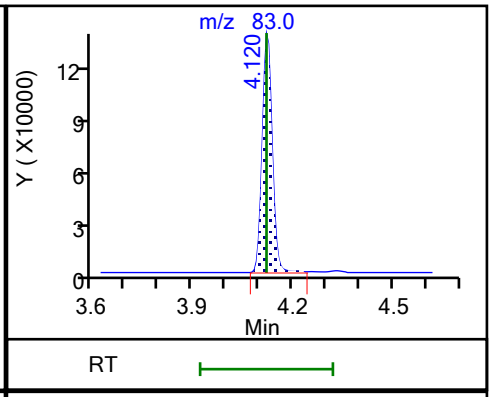
Eurofins Buffalo

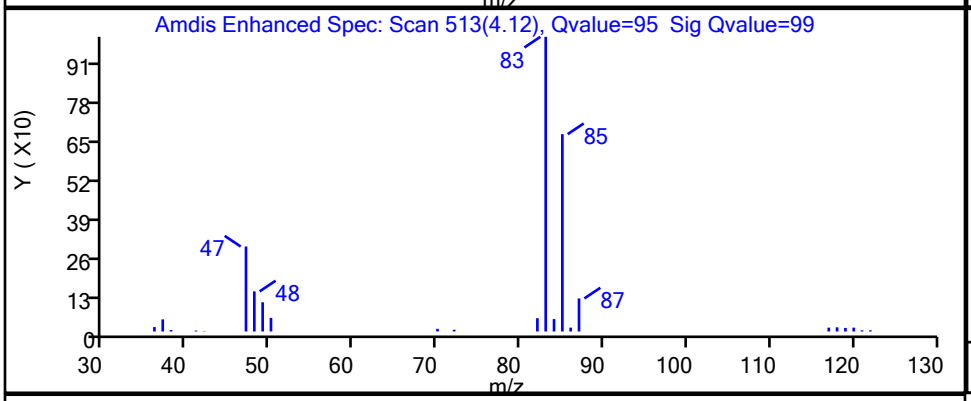
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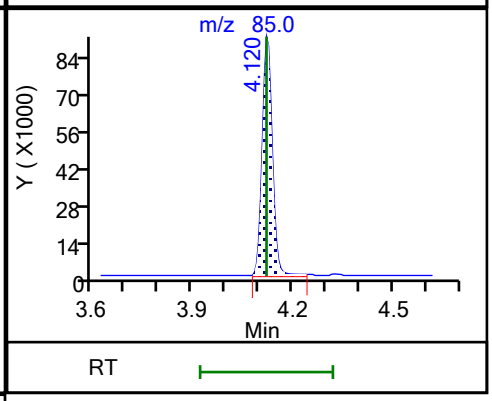
Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1
Client ID:	INF-102324		
Operator ID:	AK	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

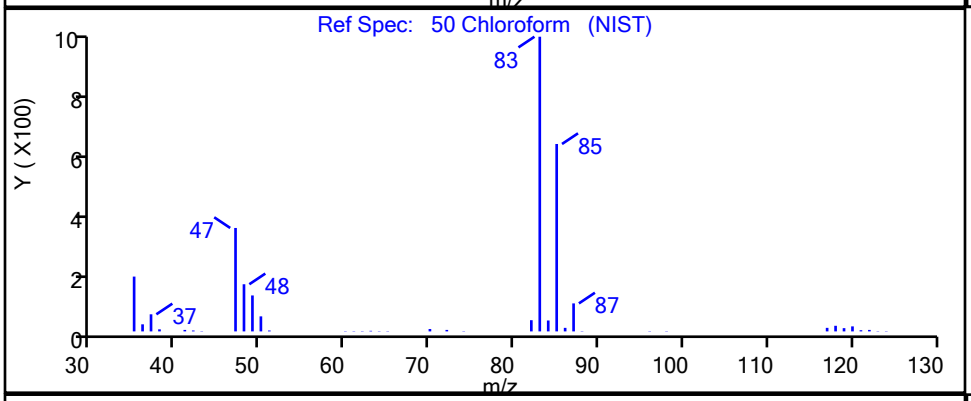
50 Chloroform, CAS: 67-66-3

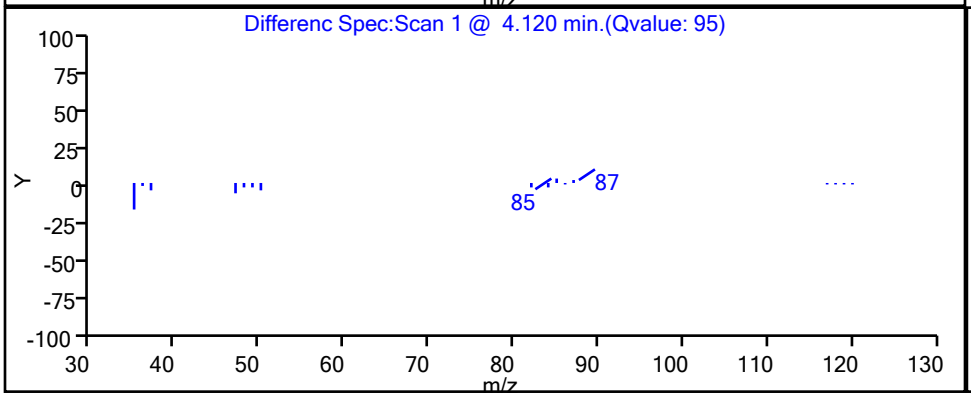


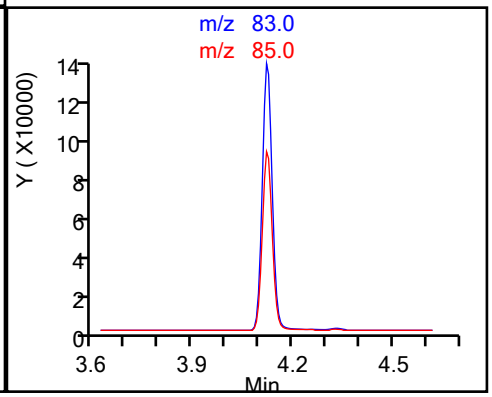












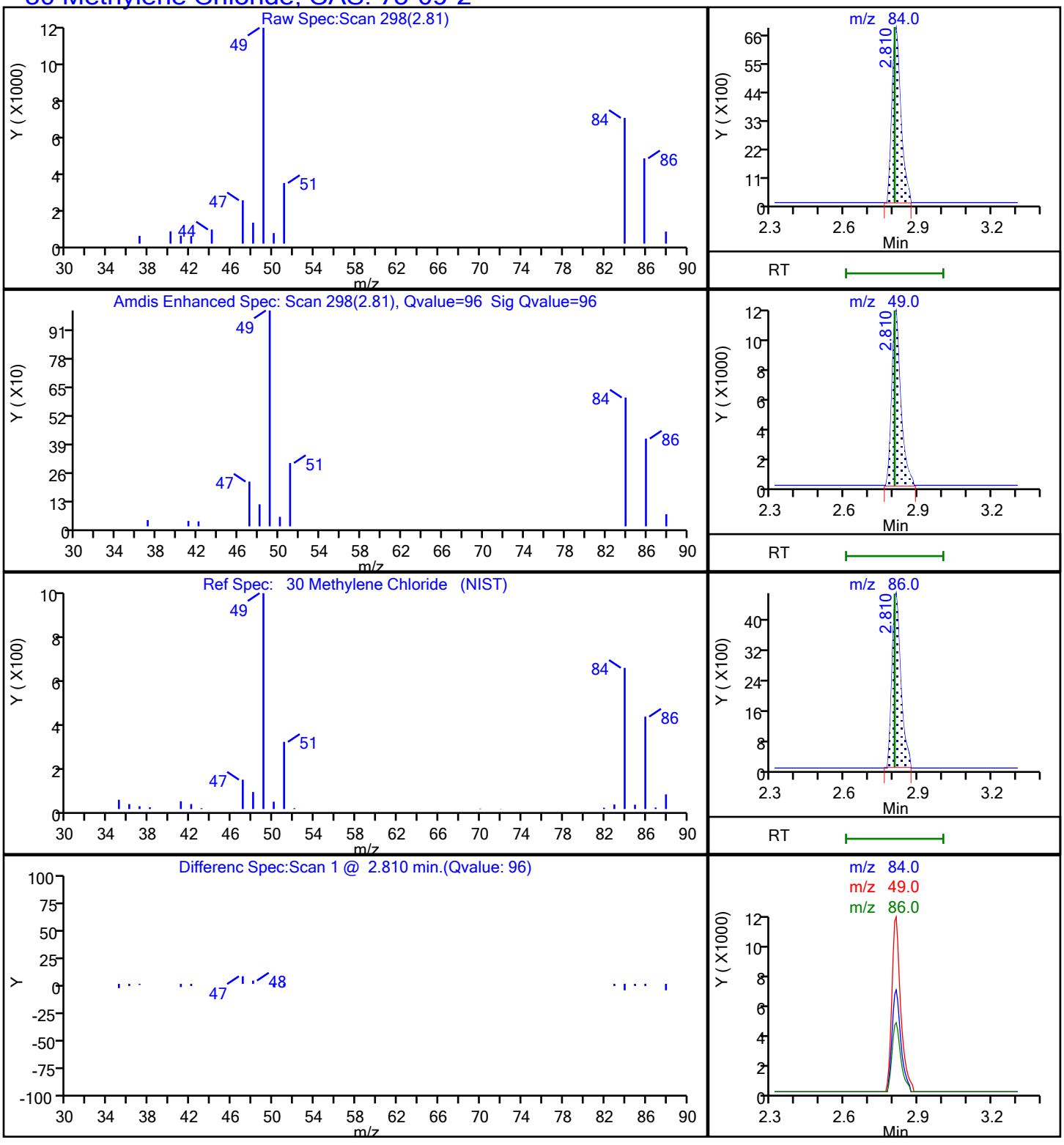
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d

Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1
Client ID:	INF-102324		
Operator ID:	AK	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



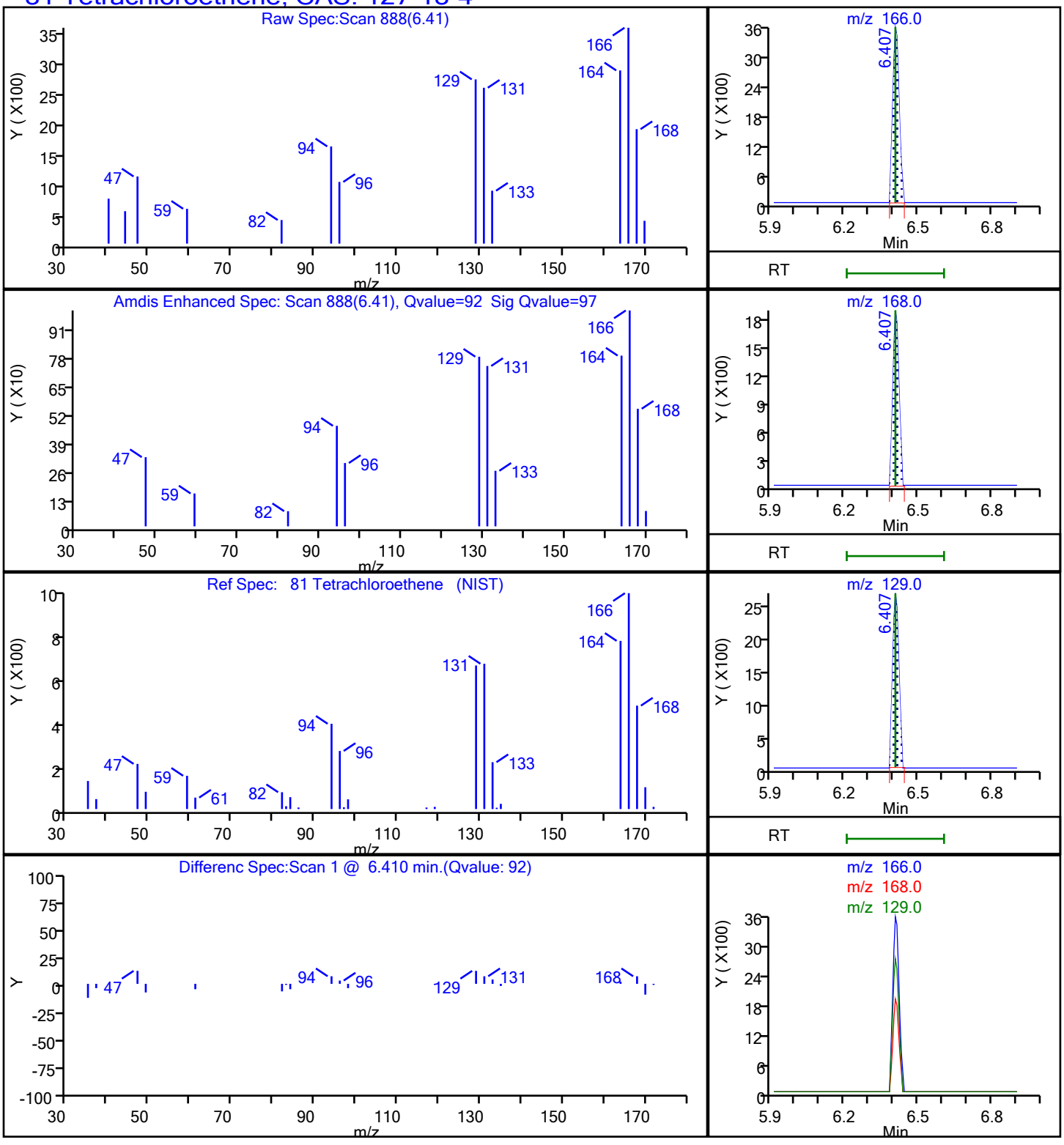
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d

Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1
Client ID:	INF-102324		
Operator ID:	AK	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



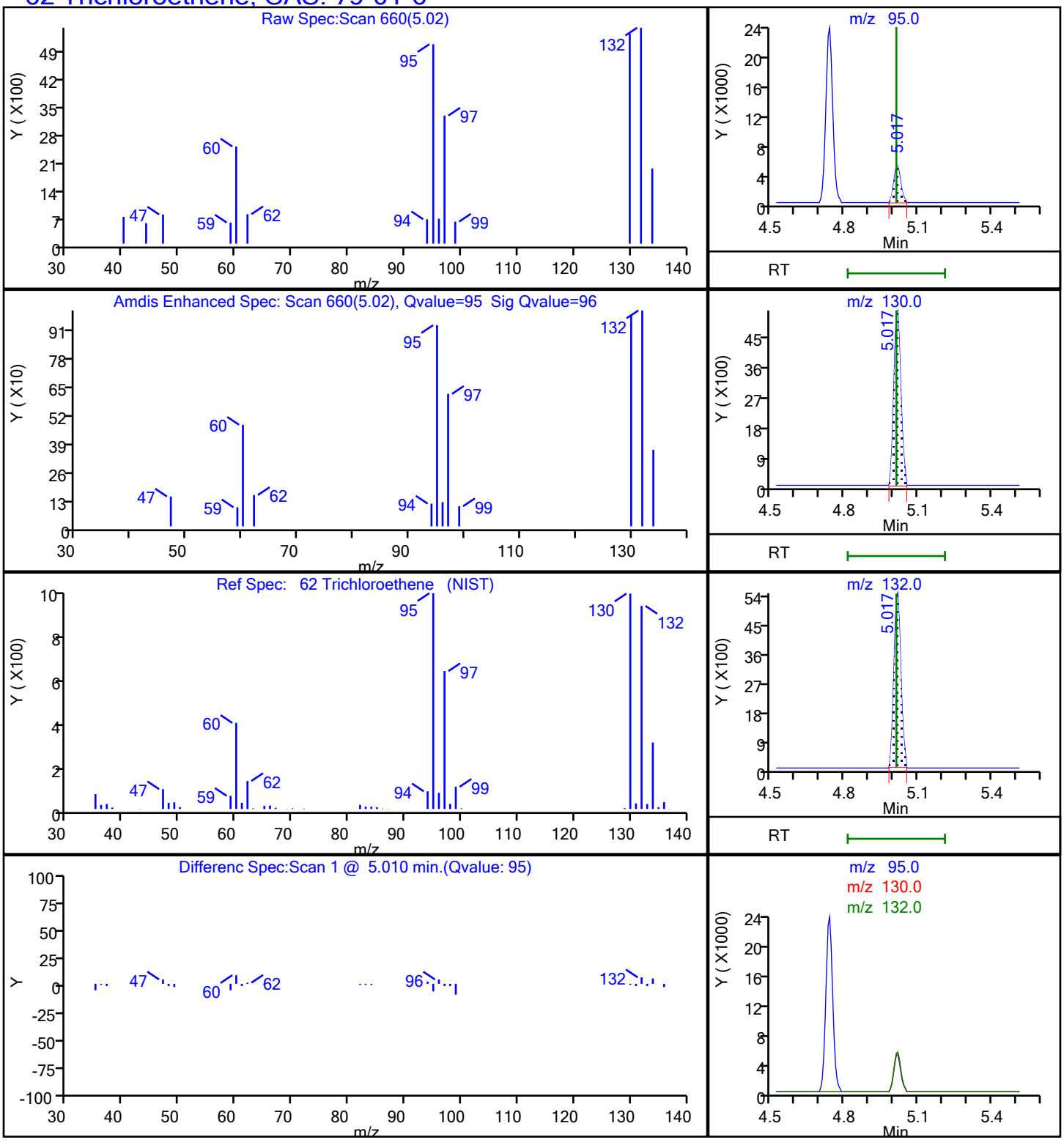
Report Date: 28-Oct-2024 16:17:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8342.d

Injection Date:	28-Oct-2024 13:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-1	Lab Sample ID:	480-224872-1
Client ID:	INF-102324		
Operator ID:	AK	ALS Bottle#:	7 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: CBT-102324 | Lab Sample ID: 480-224872-2

Matrix: Water | Lab File ID: D8343.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 14:08

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	30		1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	*Chloroform*	*140*	*E*	*1.0*	*0.34*
75-09-2	Methylene Chloride	23		1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d
Lims ID: 480-224872-A-2
Client ID: CBT-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:08:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-2
Misc. Info.: 480-0120860-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:46 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:18:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	98847	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	205148	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	247490	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.248	0.006	92	182261	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	99	100471	27.9	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	95	494882	25.0	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84	2.810	2.804	0.006	96	118624	23.5	
50 Chloroform	83	4.120	4.120	0.000	94	1281624	135.5	E
55 Carbon tetrachloride	117	4.334	4.334	0.000	97	203839	29.8	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166		6.407				ND	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

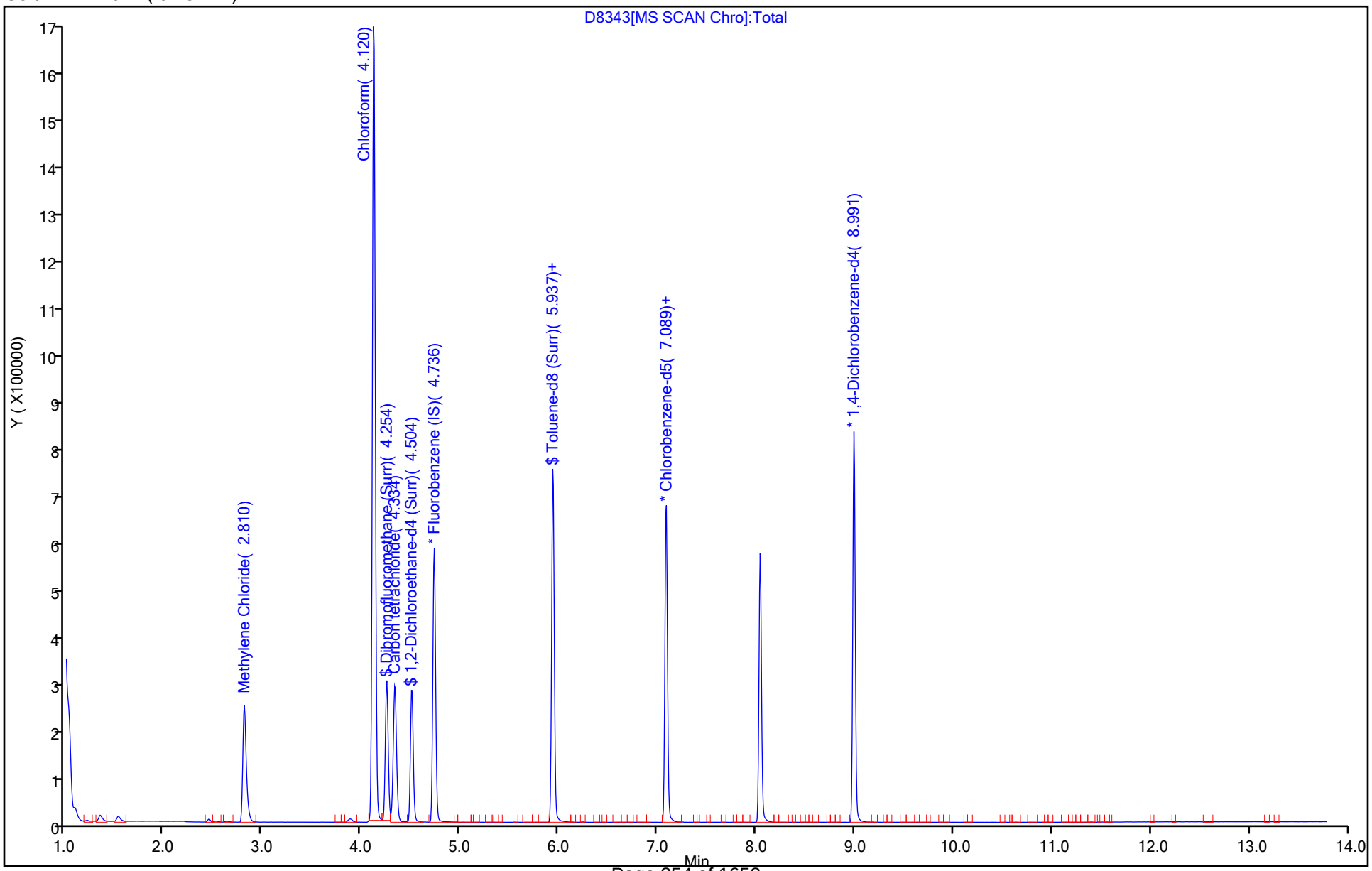
Report Date: 28-Oct-2024 16:18:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d

Injection Date:	28-Oct-2024 14:08:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-2	Lab Sample ID:	480-224872-2	Worklist Smp#:	10
Client ID:	CBT-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d
Lims ID: 480-224872-A-2
Client ID: CBT-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:08:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-2
Misc. Info.: 480-0120860-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:46 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:18:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.71
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.9	111.51
$ 5 Toluene-d8 (Surr)	25.0	25.0	99.99

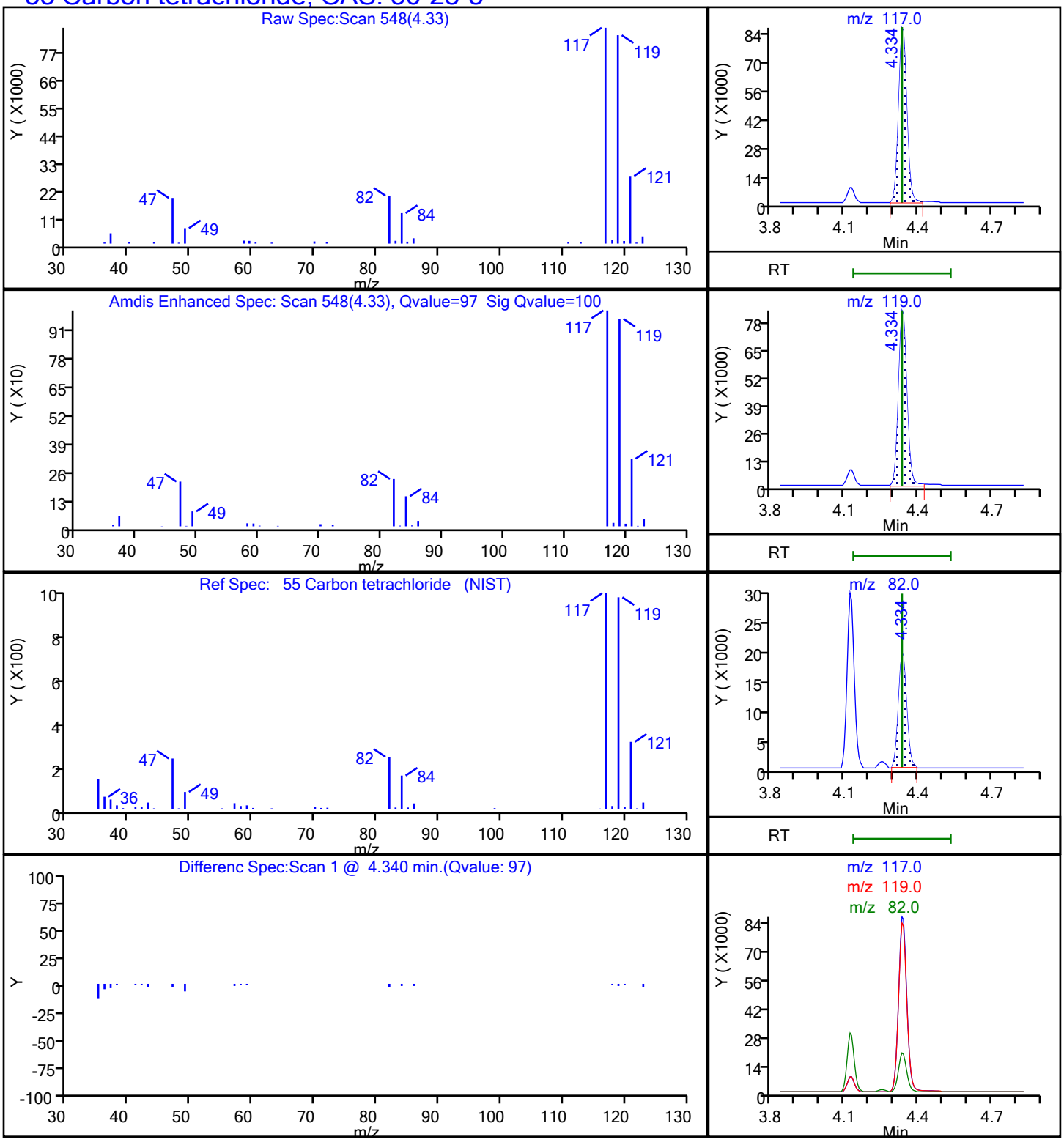
Report Date: 28-Oct-2024 16:18:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d

Injection Date:	28-Oct-2024 14:08:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



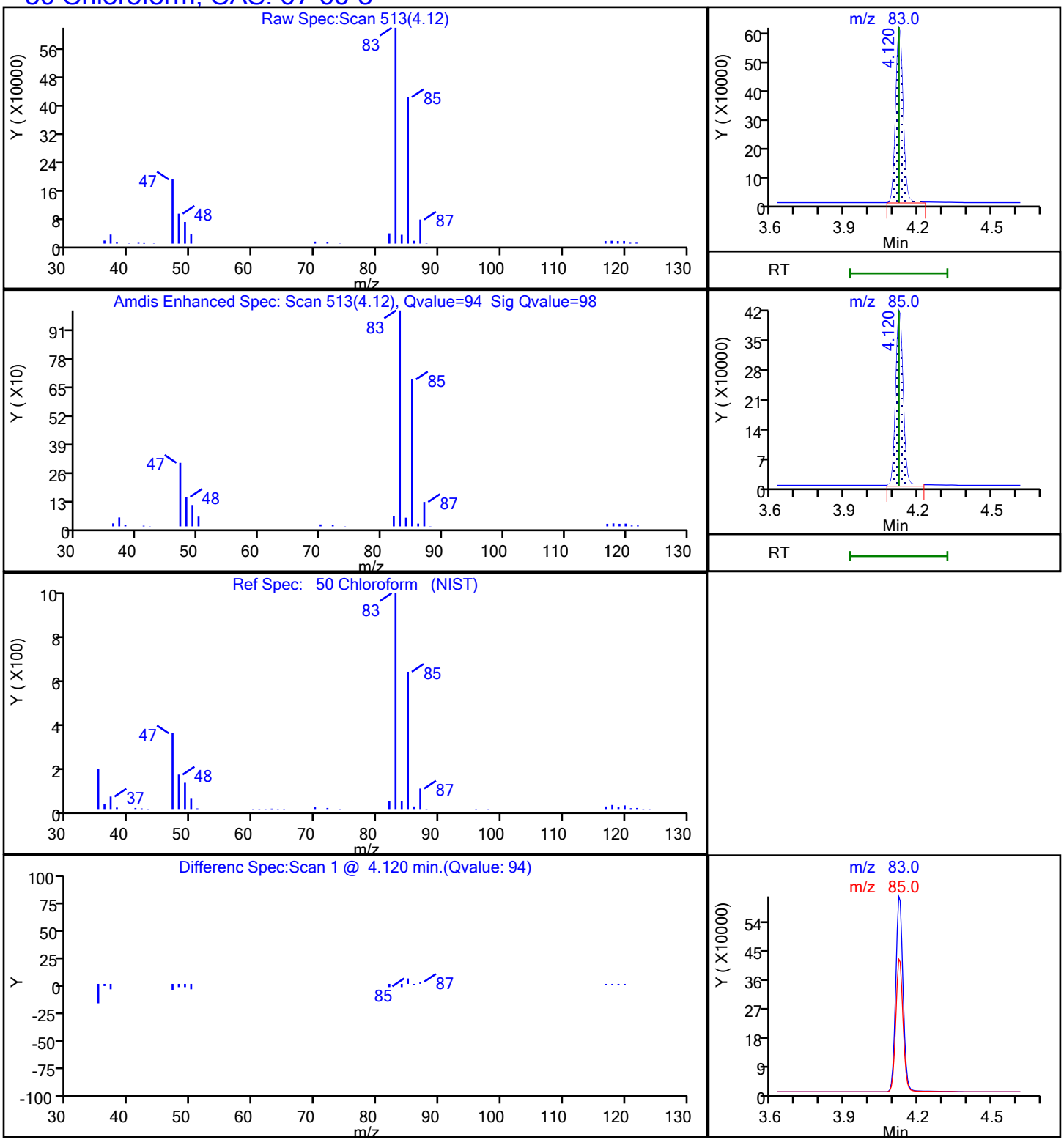
Report Date: 28-Oct-2024 16:18:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d

Injection Date:	28-Oct-2024 14:08:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



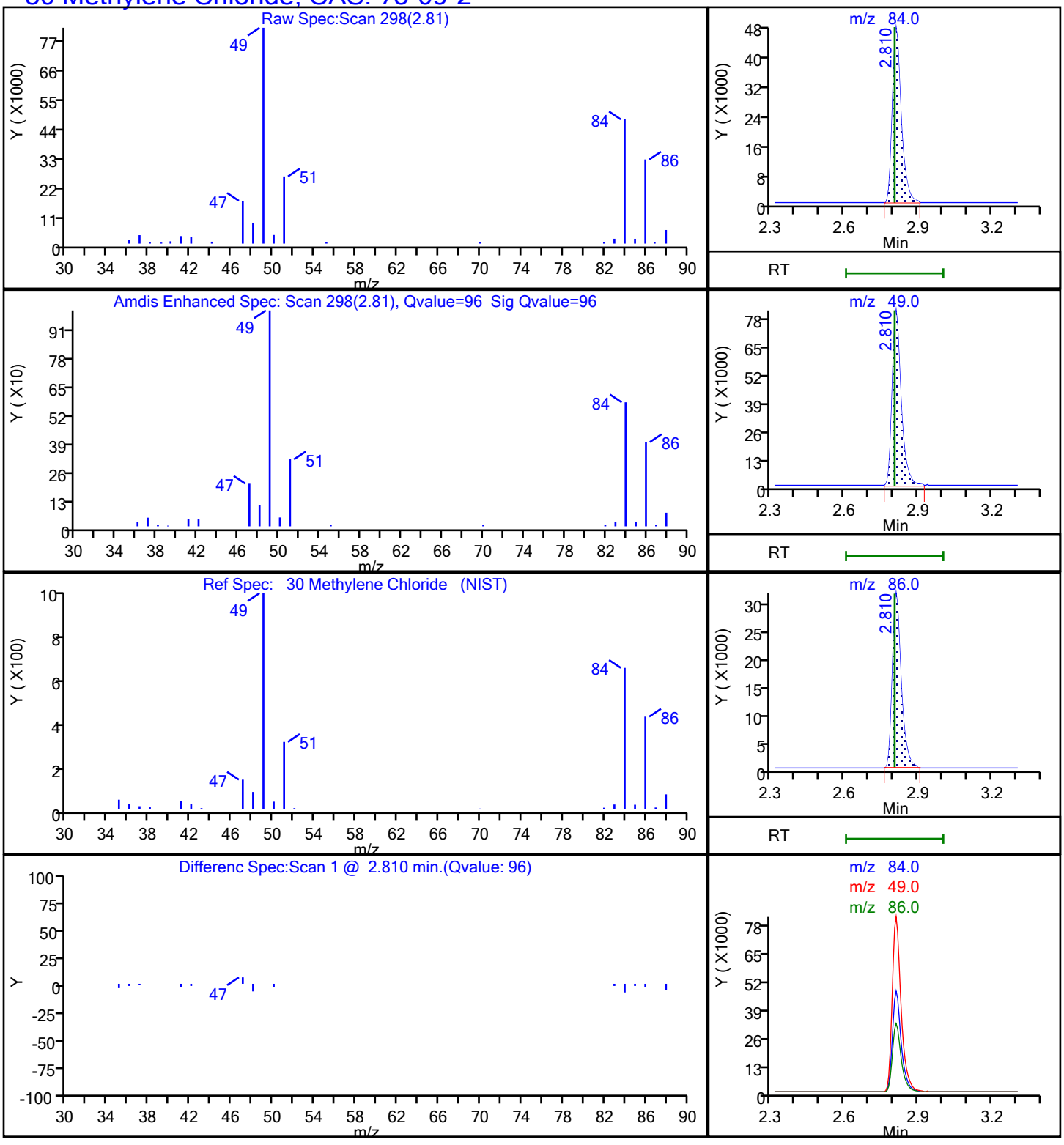
Report Date: 28-Oct-2024 16:18:47 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d

Injection Date:	28-Oct-2024 14:08:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-2	Lab Sample ID:	480-224872-2
Client ID:	CBT-102324		
Operator ID:	AK	ALS Bottle#:	8 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



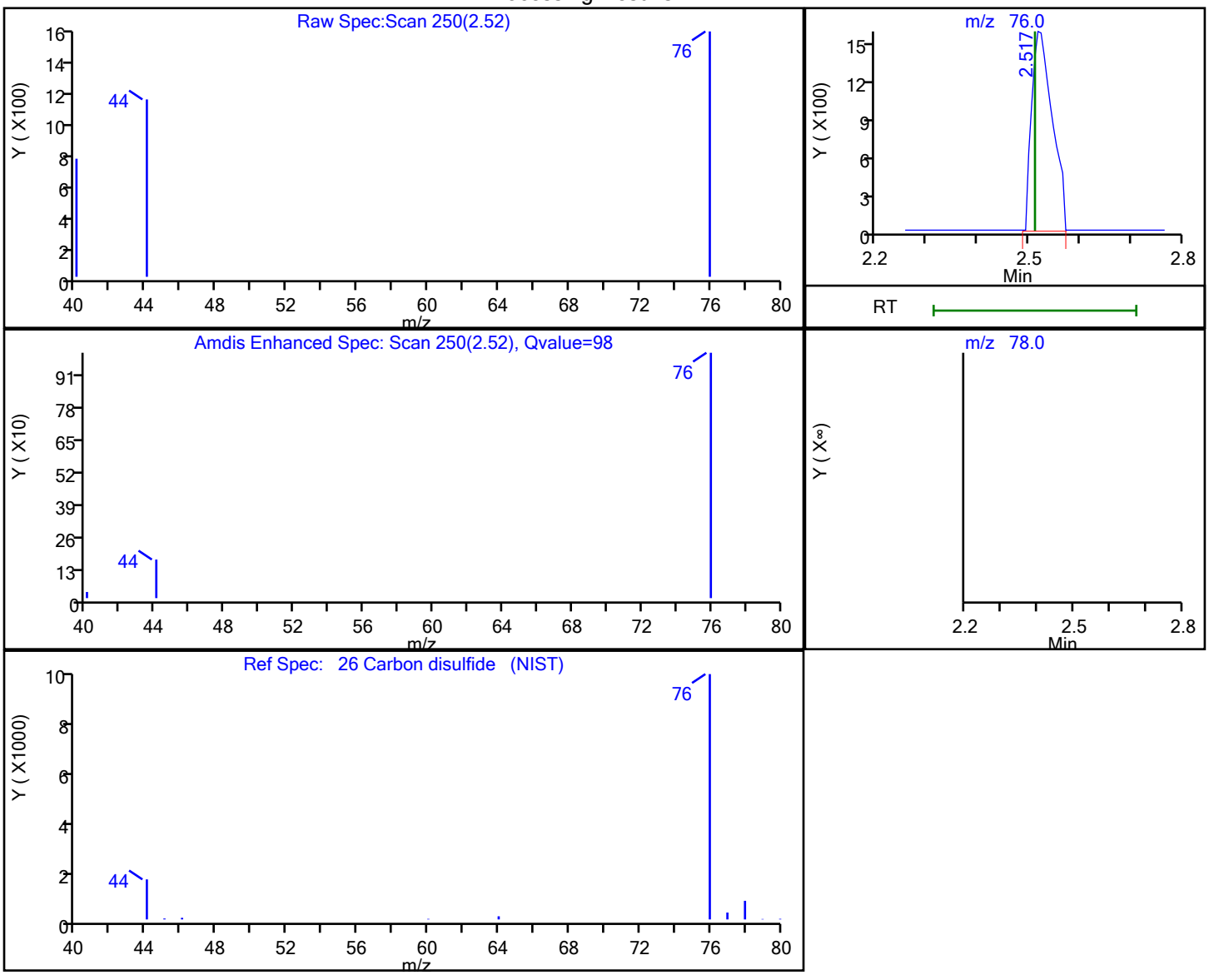
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8343.d				
Injection Date:	28-Oct-2024 14:08:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	8	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	4300	0.289579
2.51	78.00	0	

Reviewer: R3QB, 28-Oct-2024 16:18:03 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: CBT-102324 DL | Lab Sample ID: 480-224872-2 DL

Matrix: Water | Lab File ID: D8416.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 17:30

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:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	*Benzene*	*0.82*	*U*	*2.0*	*0.82*
75-15-0	*Carbon disulfide*	*0.38*	*U*	*2.0*	*0.38*
56-23-5	*Carbon tetrachloride*	*28*	*D*	*2.0*	*0.54*
108-90-7	*Chlorobenzene*	*1.5*	*U*	*2.0*	*1.5*
67-66-3	Chloroform	140	D	2.0	0.68
75-09-2	*Methylene Chloride*	*24*	*D*	*2.0*	*0.88*
127-18-4	*Tetrachloroethene*	*0.72*	*U*	*2.0*	*0.72*
108-88-3	*Toluene*	*1.0*	*U*	*2.0*	*1.0*
79-01-6	*Trichloroethene*	*0.92*	*U*	*2.0*	*0.92*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109	D	77-120
1868-53-7	Dibromofluoromethane (Surr)	109	D	75-123
2037-26-5	Toluene-d8 (Surr)	101	D	80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d
Lims ID: 480-224872-B-2
Client ID: CBT-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 17:30:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-B-2
Misc. Info.: 480-0120894-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	101168	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	211516	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	237097	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.266	-0.001	92	177988	27.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	100360	27.2	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	513009	25.1	
26 Carbon disulfide	76		2.541				ND	U
30 Methylene Chloride	84	2.822	2.822	0.000	96	65177	12.2	
50 Chloroform	83	4.132	4.133	-0.001	95	665013	68.7	
55 Carbon tetrachloride	117	4.346	4.346	0.000	98	96935	13.8	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

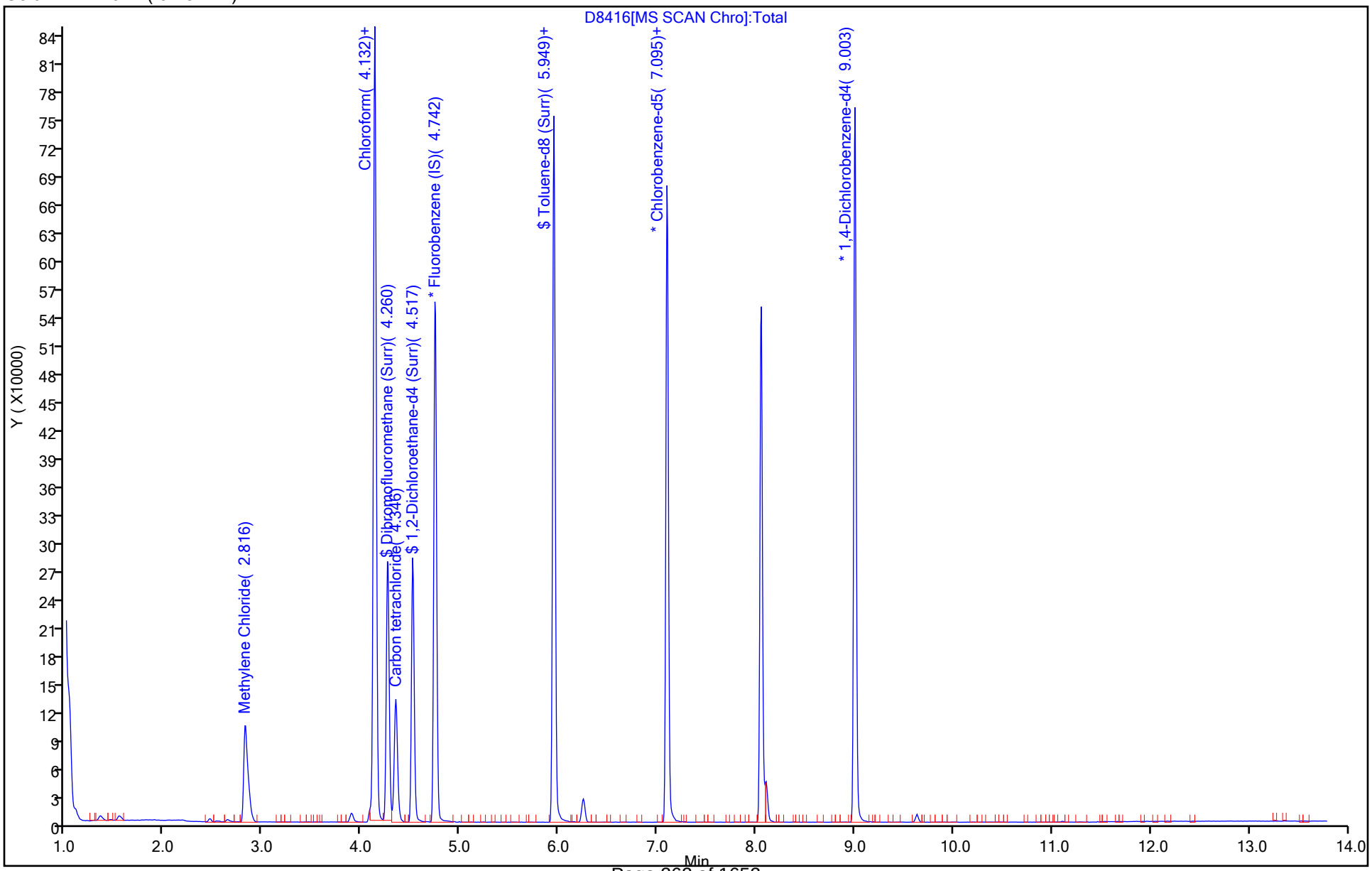
Report Date: 29-Oct-2024 18:35:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d

Injection Date:	29-Oct-2024 17:30:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-2	Lab Sample ID:	480-224872-2	Worklist Smp#:	14
Client ID:	CBT-102324				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	12
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d
Lims ID: 480-224872-B-2
Client ID: CBT-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 17:30:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-B-2
Misc. Info.: 480-0120894-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.4	109.45
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.83
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.53

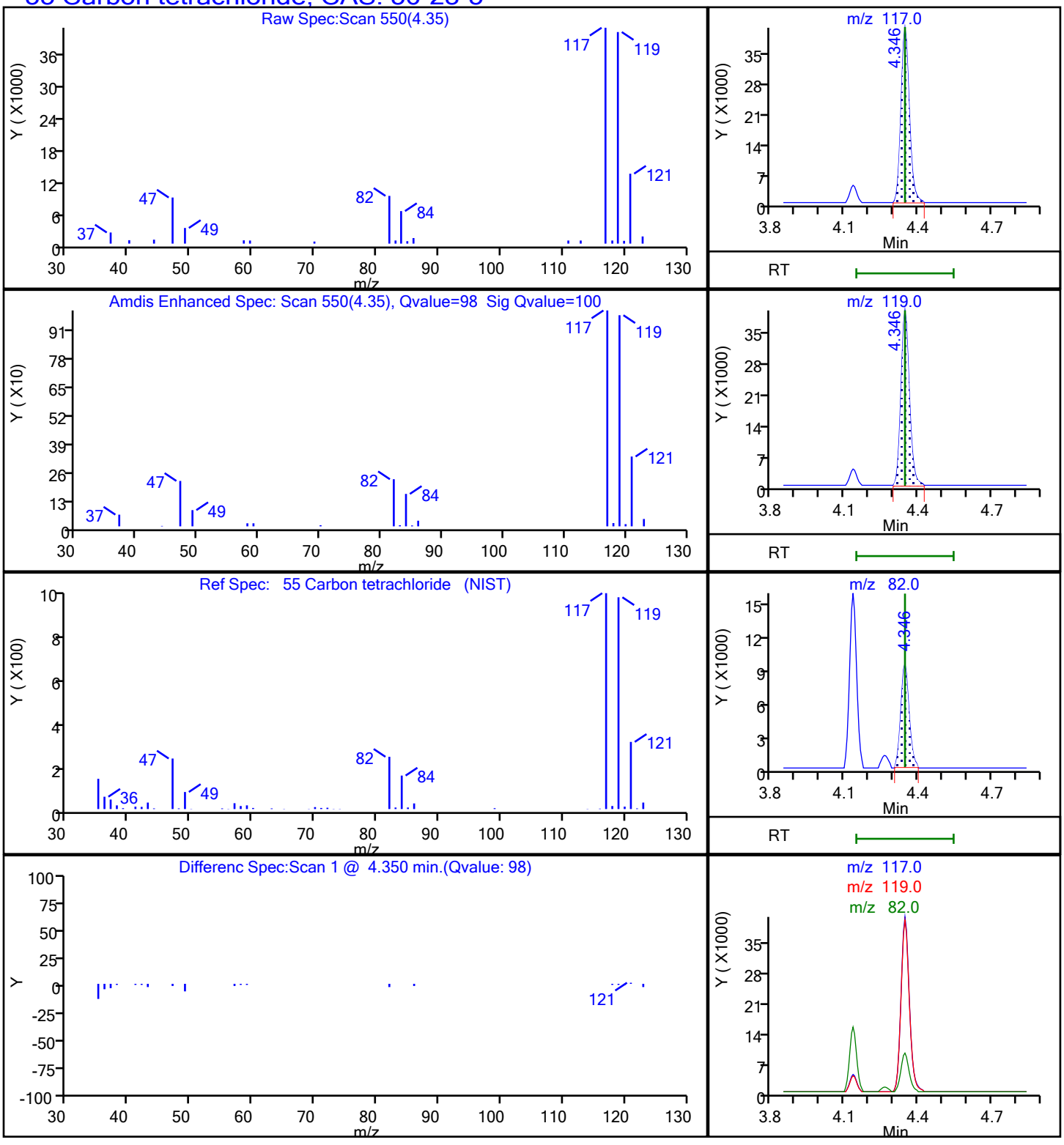
Report Date: 29-Oct-2024 18:35:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d

Injection Date:	29-Oct-2024 17:30:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



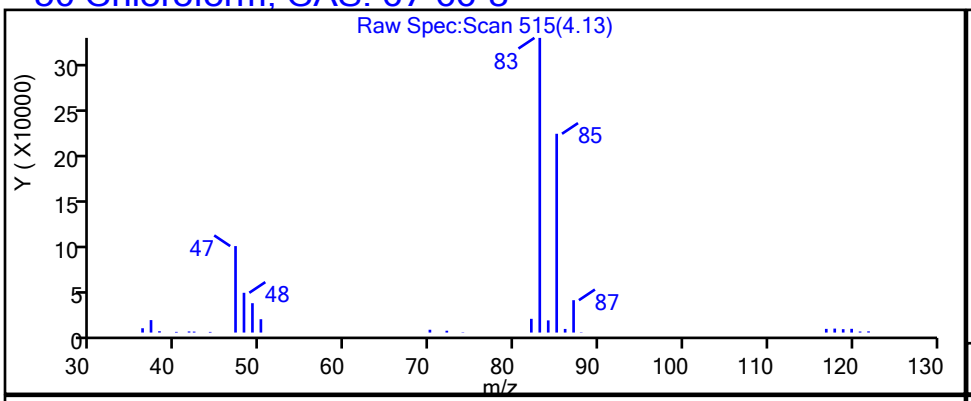
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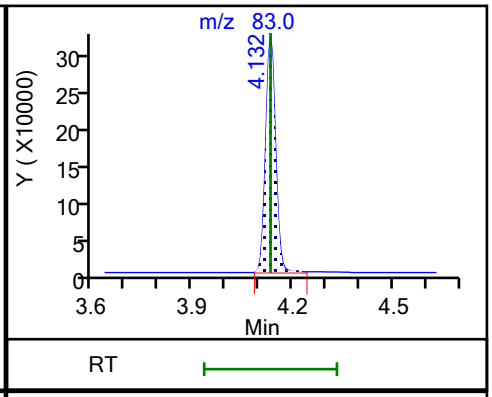
Eurofins Buffalo

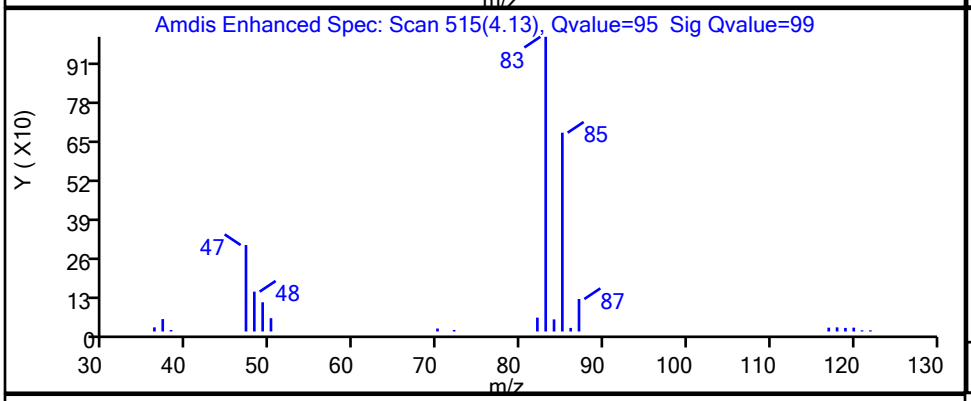
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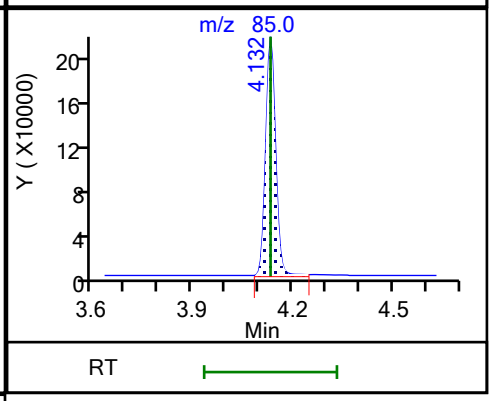
Injection Date:	29-Oct-2024 17:30:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

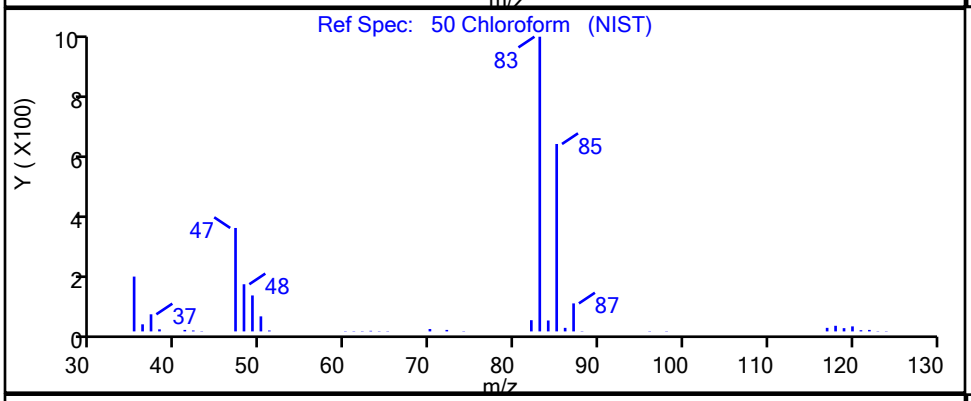
50 Chloroform, CAS: 67-66-3

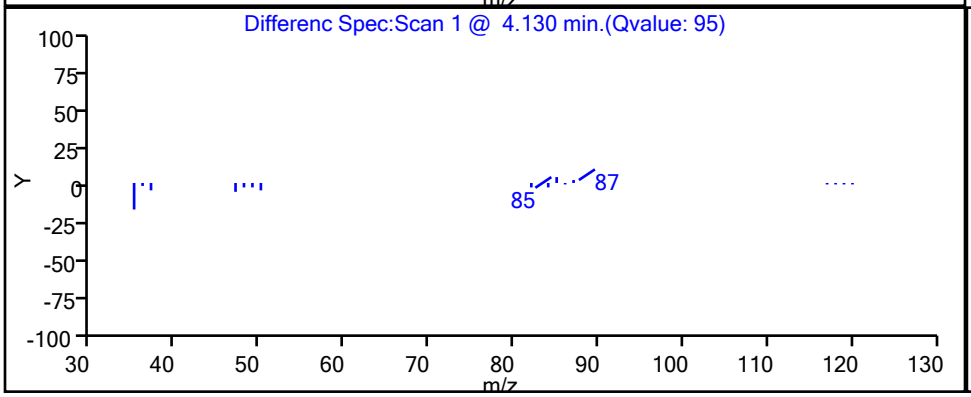


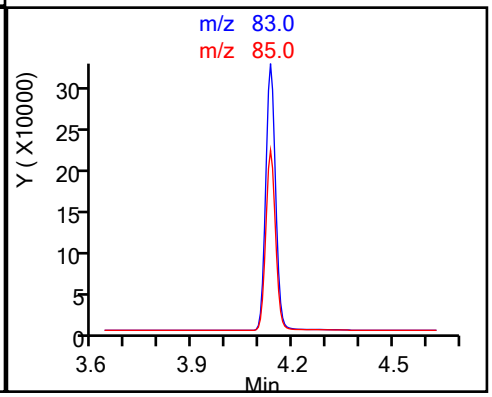












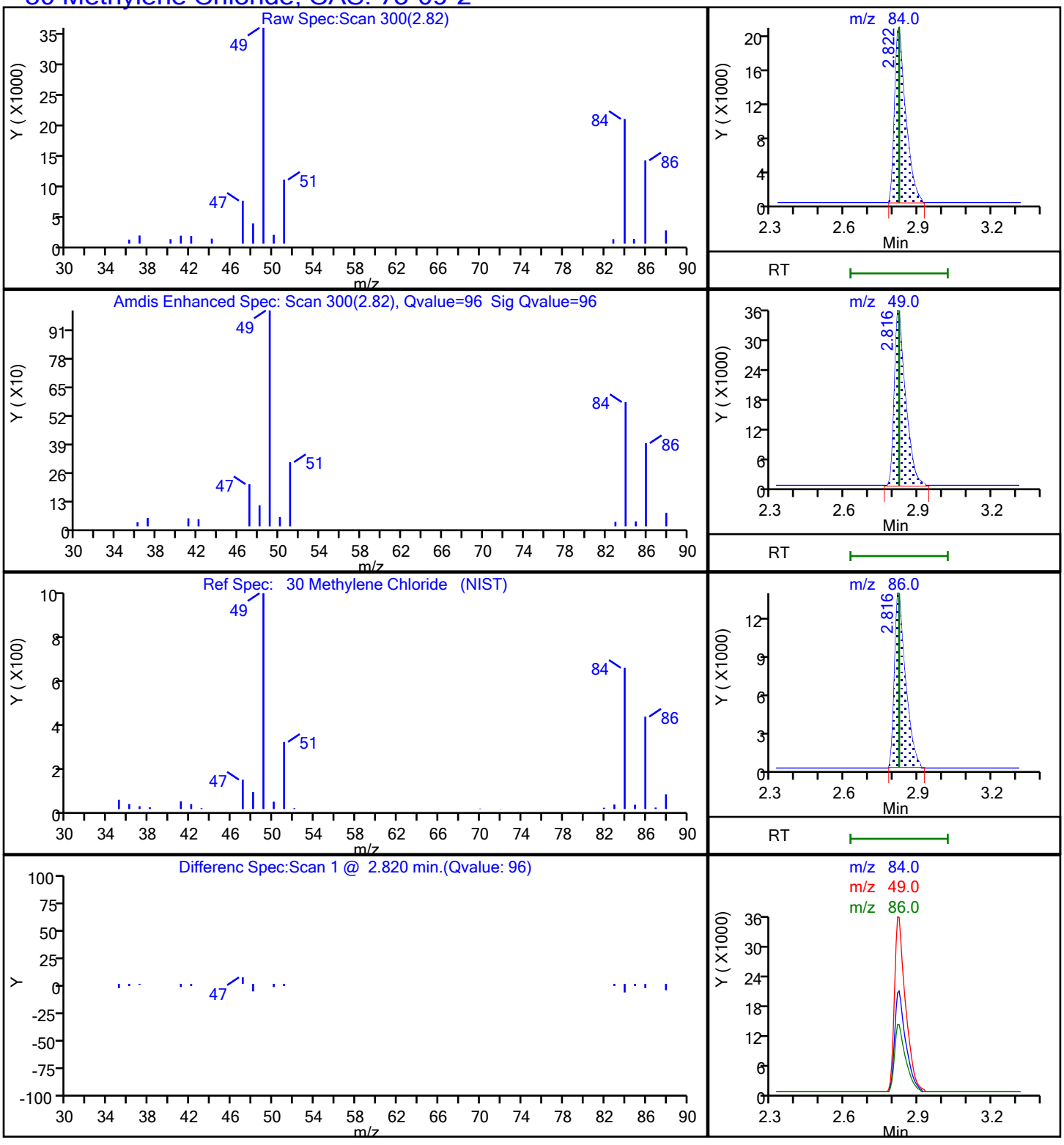
Report Date: 29-Oct-2024 18:35:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d

Injection Date:	29-Oct-2024 17:30:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



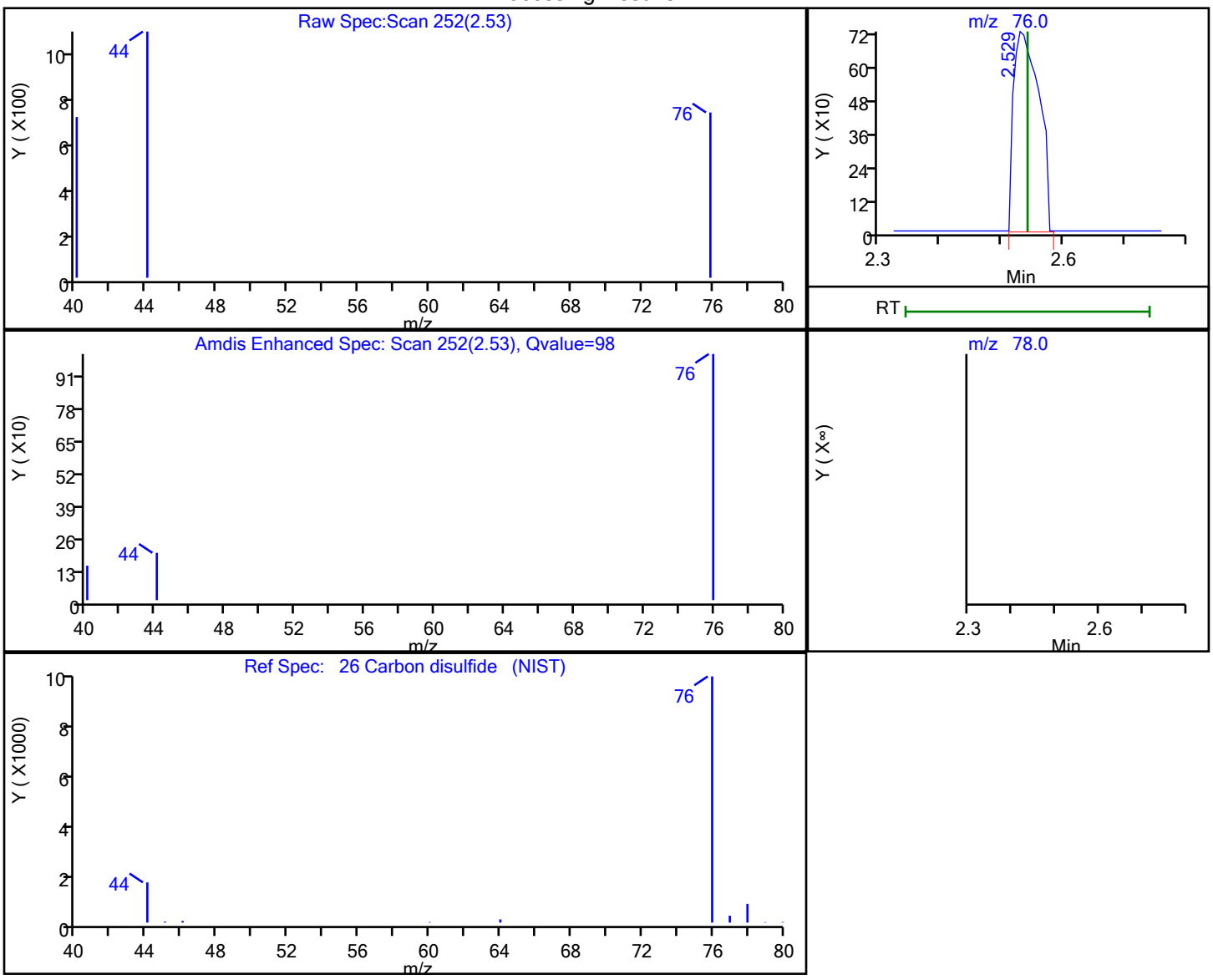
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8416.d				
Injection Date:	29-Oct-2024 17:30:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-2	Lab Sample ID:	480-224872-2		
Client ID:	CBT-102324				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	2093	0.137717
2.54	78.00	0	

Reviewer: R3QB, 29-Oct-2024 18:34:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EFF-102324 | Lab Sample ID: 480-224872-3

Matrix: Water | Lab File ID: D8344.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 14:30

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8344.d
Lims ID: 480-224872-F-3
Client ID: EFF-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:30:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-F-3
Misc. Info.: 480-0120860-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:18:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	102528	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	212176	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	249173	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.248	0.007	92	183243	27.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.504	4.504	0.000	98	101767	27.2	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	509680	24.9	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83		4.120				ND	
55 Carbon tetrachloride	117		4.334				ND	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166		6.407				ND	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

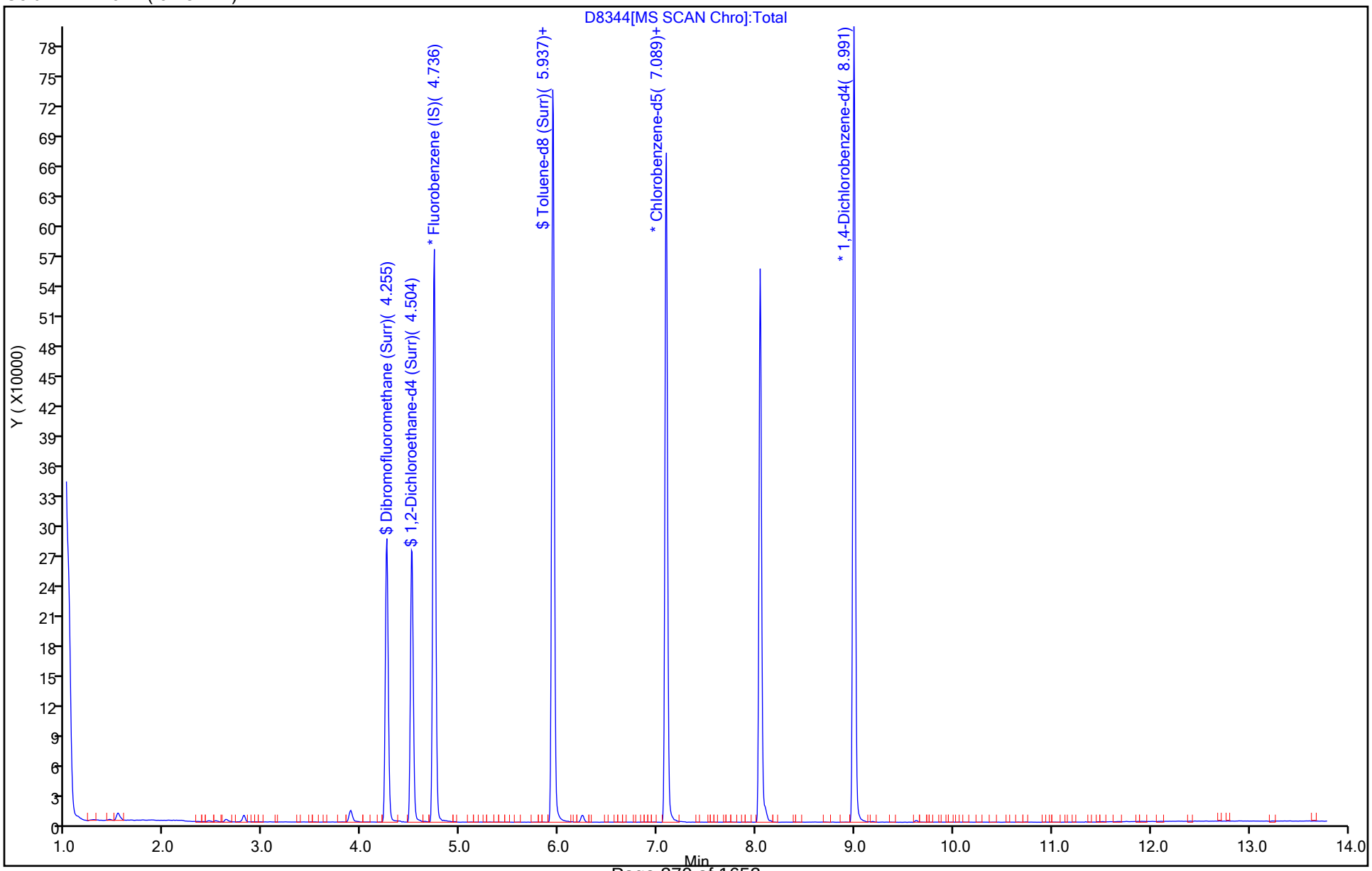
Report Date: 28-Oct-2024 16:18:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8344.d

Injection Date:	28-Oct-2024 14:30:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-F-3	Lab Sample ID:	480-224872-3	Worklist Smp#:	11
Client ID:	EFF-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 28-Oct-2024 16:18:58 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8344.d
Lims ID: 480-224872-F-3
Client ID: EFF-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:30:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-F-3
Misc. Info.: 480-0120860-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:18:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.8	111.19
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.89
$ 5 Toluene-d8 (Surr)	25.0	24.9	99.57

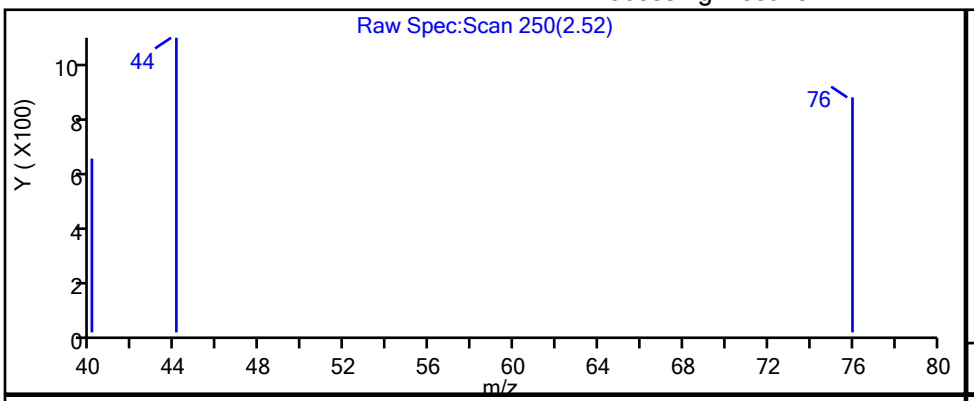
User Disabled Compound Report

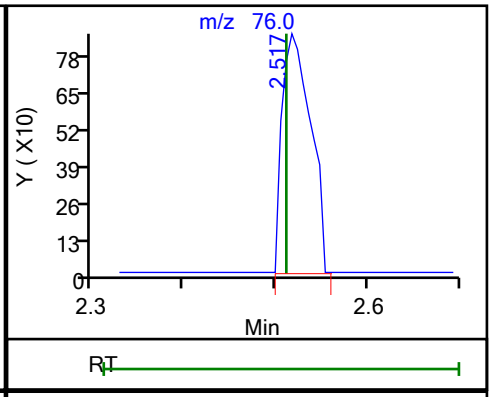
Eurofins Buffalo

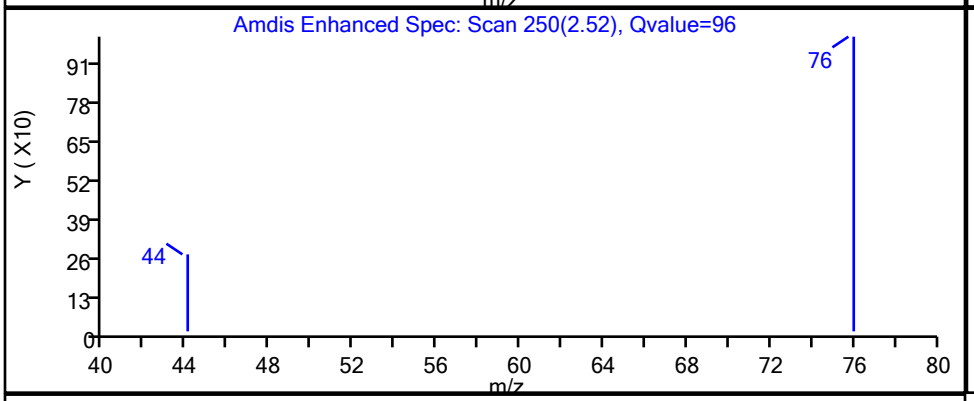
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Injection Date:	28-Oct-2024 14:30:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-F-3	Lab Sample ID:	480-224872-3		
Client ID:	EFF-102324				
Operator ID:	AK	ALS Bottle#:	9	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

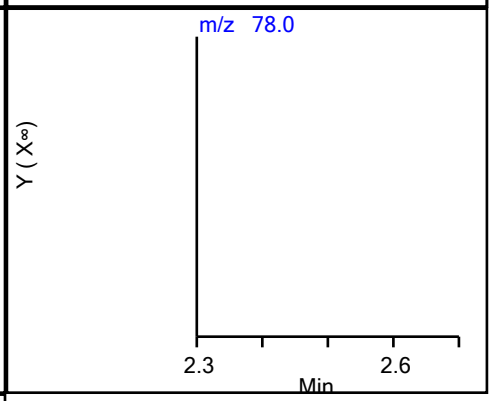
26 Carbon disulfide, CAS: 75-15-0

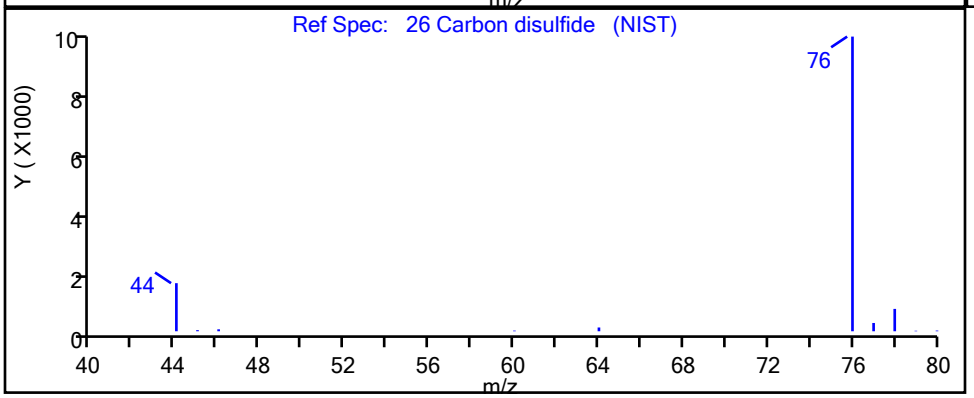
Processing Results











RT	Mass	Response	Amount
2.52	76.00	1862	0.120892
2.51	78.00	0	

Reviewer: R3QB, 28-Oct-2024 16:18:53 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-1R-102324 | Lab Sample ID: 480-224872-4

Matrix: Water | Lab File ID: D8345.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 14:52

Soil Aliquot Vol: | Dilution Factor: 1000

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	410	U	1000	410
75-15-0	Carbon disulfide	75000		1000	190
56-23-5	Carbon tetrachloride	5900		1000	270
108-90-7	Chlorobenzene	750	U	1000	750
67-66-3	Chloroform	4300		1000	340
75-09-2	Methylene Chloride	440	U	1000	440
127-18-4	Tetrachloroethene	360	U	1000	360
108-88-3	Toluene	510	U	1000	510
79-01-6	Trichloroethene	460	U	1000	460

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8345.d
Lims ID: 480-224872-A-4
Client ID: EW-1R-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:52:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1000.0000
Sample Info: 480-224872-A-4
Misc. Info.: 480-0120860-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	101197	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	204695	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	244087	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.248	0.006	93	181484	27.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	100658	27.3	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	503717	25.5	
26 Carbon disulfide	76	2.517	2.511	0.006	100	1134357	74.6	
30 Methylene Chloride	84	2.810	2.804	0.006	95	5517	0.2414	
50 Chloroform	83	4.126	4.120	0.006	95	41938	4.33	
55 Carbon tetrachloride	117	4.334	4.334	0.000	97	41579	5.93	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166		6.407				ND	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

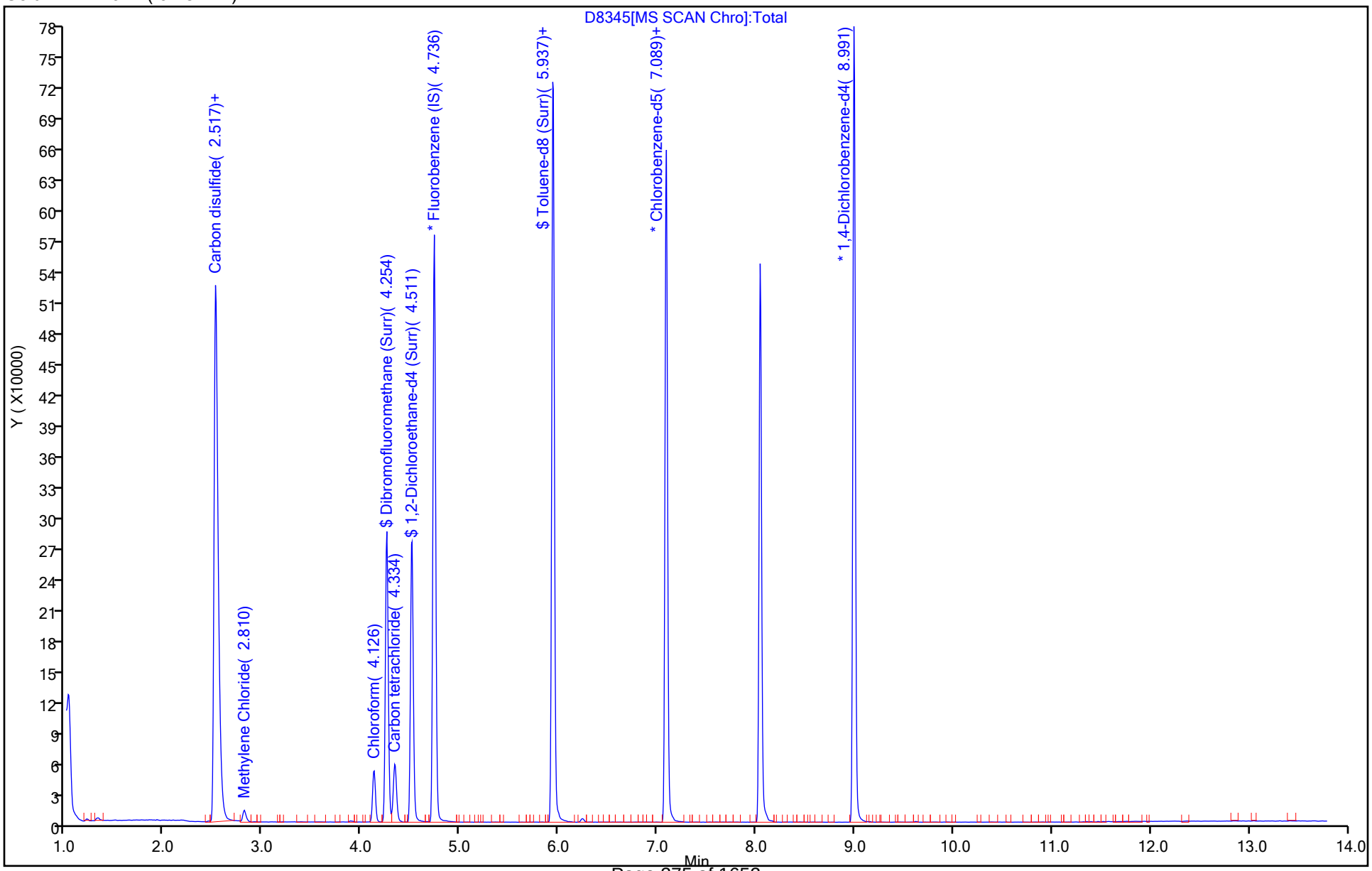
Report Date: 28-Oct-2024 16:19:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8345.d

Injection Date:	28-Oct-2024 14:52:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-4	Lab Sample ID:	480-224872-4	Worklist Smp#:	12
Client ID:	EW-1R-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000	ALS Bottle#:	10
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8345.d
Lims ID: 480-224872-A-4
Client ID: EW-1R-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 14:52:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1000.0000
Sample Info: 480-224872-A-4
Misc. Info.: 480-0120860-012
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.9	111.57
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.3	109.12
$ 5 Toluene-d8 (Surr)	25.0	25.5	102.00

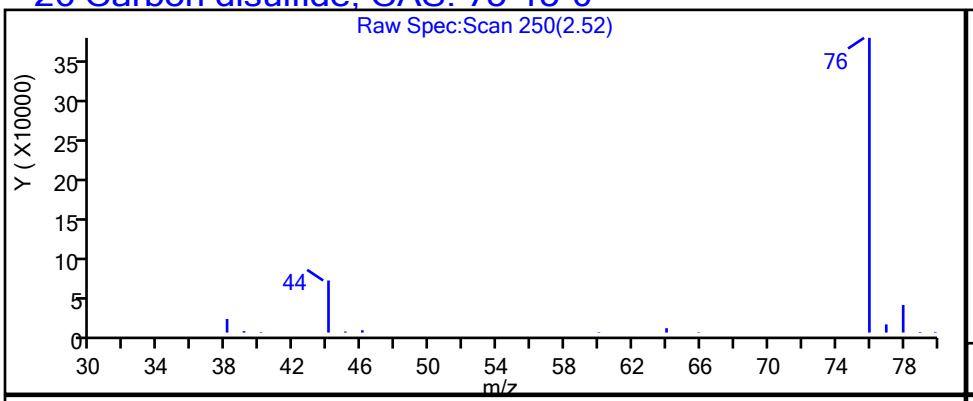
Report Date: 28-Oct-2024 16:19:11 Chrom Revision: 2.3 24-Sep-2024 15:19:46

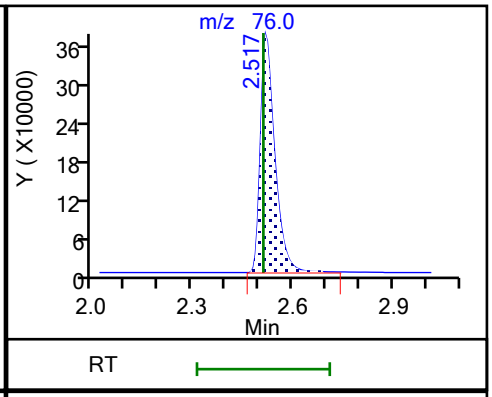
Eurofins Buffalo

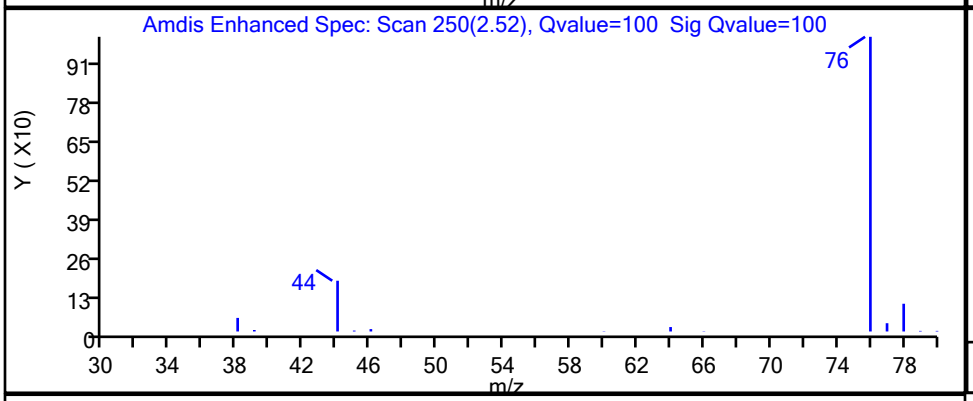
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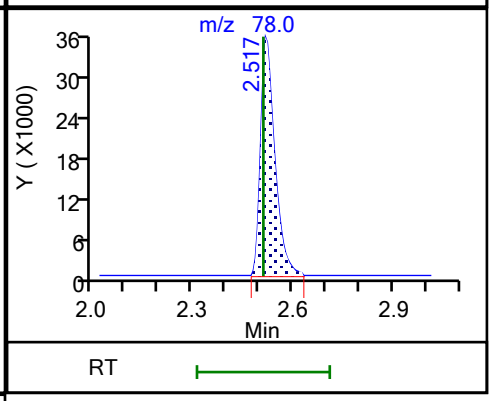
Injection Date:	28-Oct-2024 14:52:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-4	Lab Sample ID:	480-224872-4		
Client ID:	EW-1R-102324				
Operator ID:	AK	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

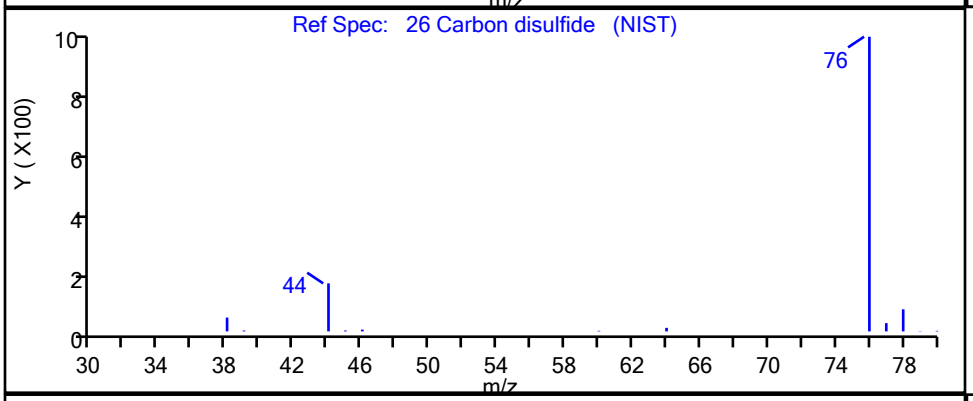
26 Carbon disulfide, CAS: 75-15-0

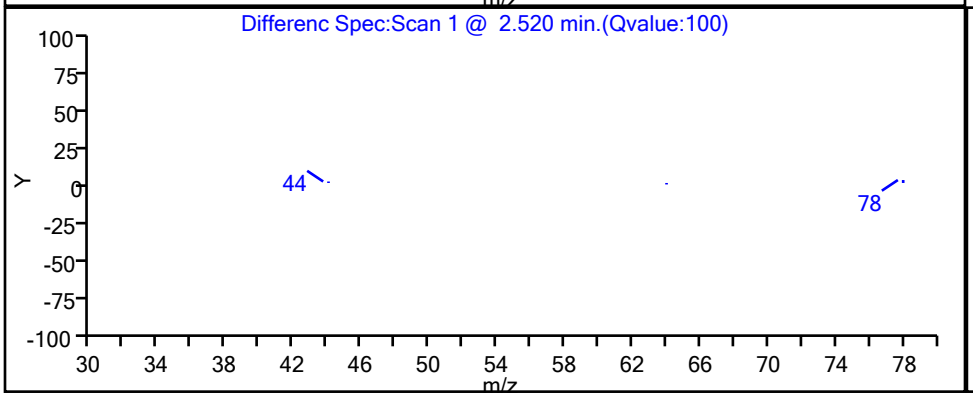


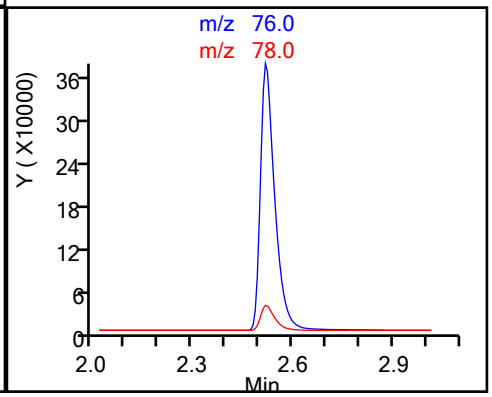












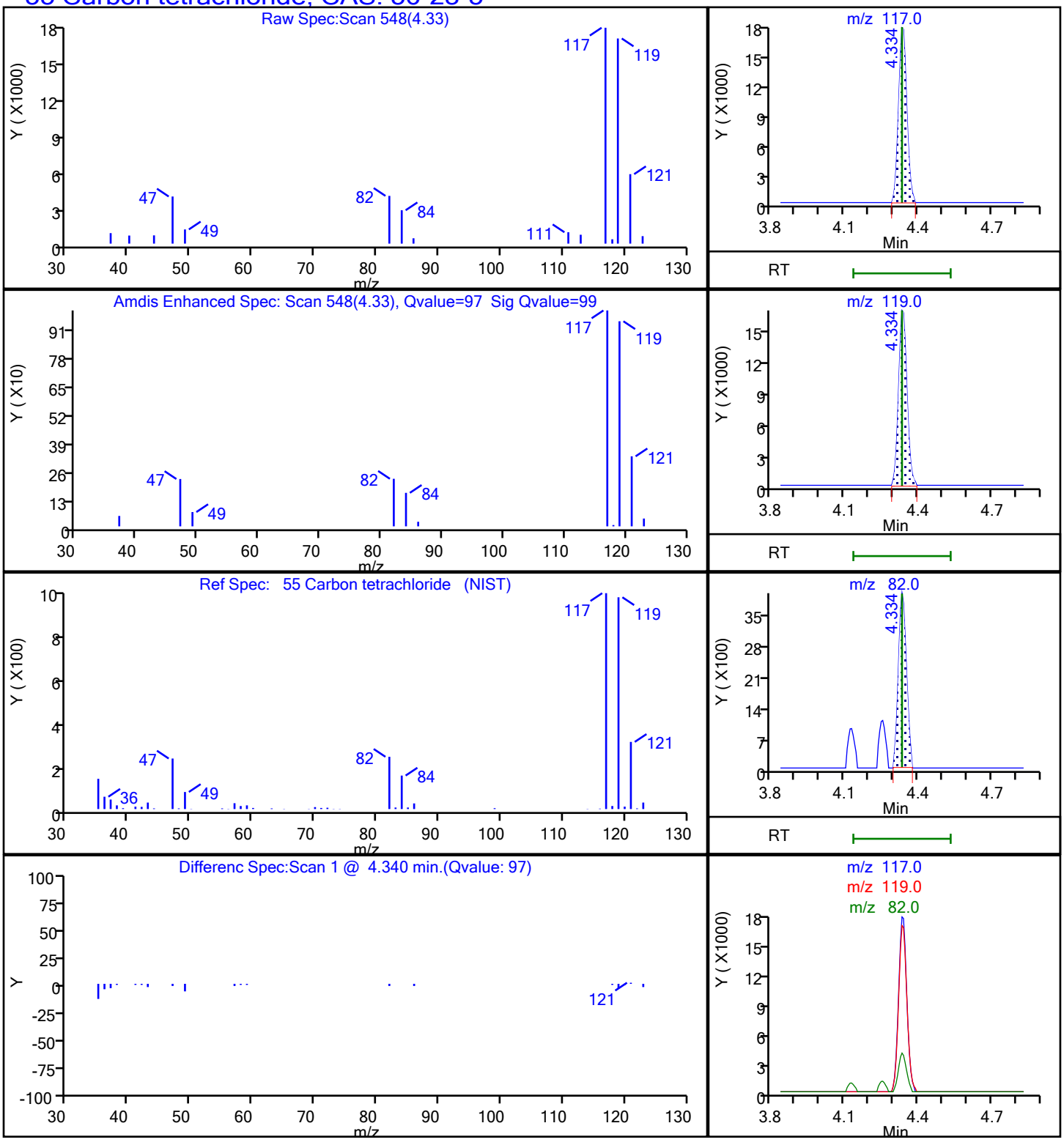
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8345.d

Injection Date:	28-Oct-2024 14:52:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-4	Lab Sample ID:	480-224872-4		
Client ID:	EW-1R-102324				
Operator ID:	AK	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



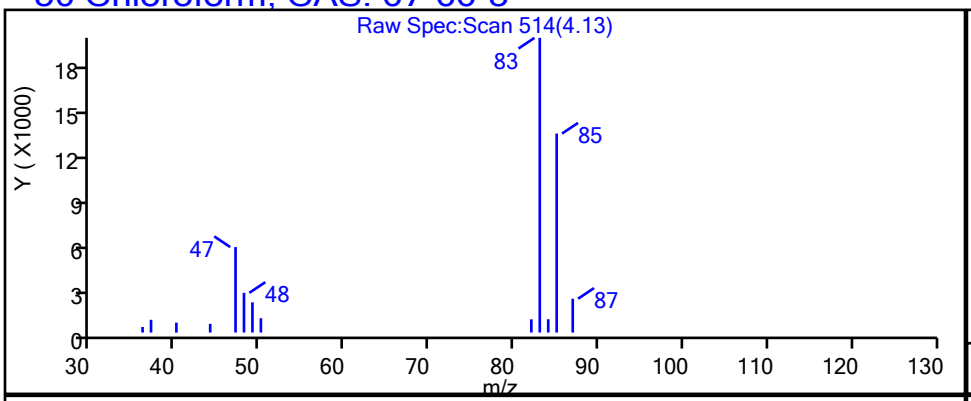
Report Date: 28-Oct-2024 16:19:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

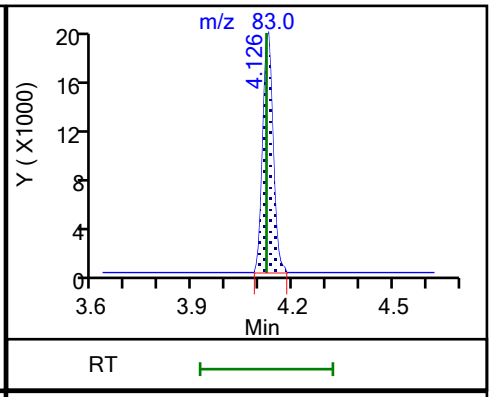
Eurofins Buffalo

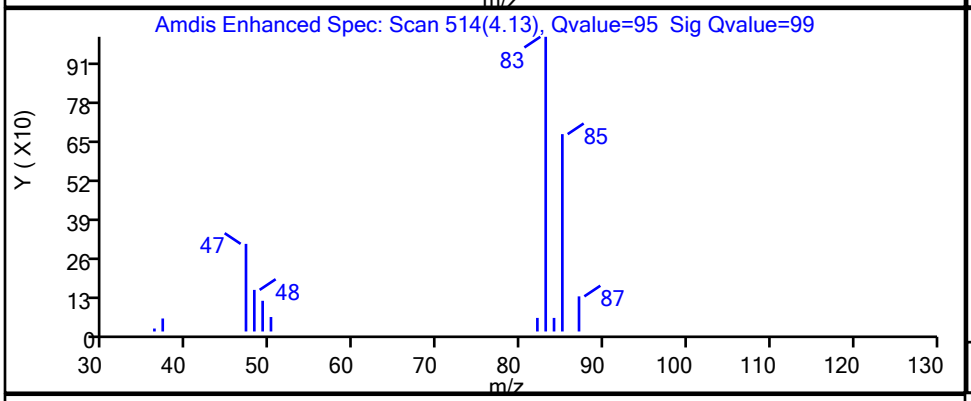
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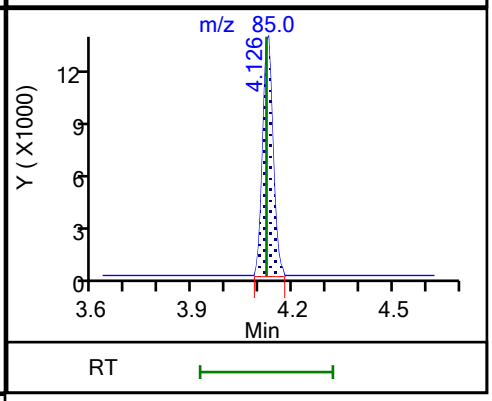
Injection Date:	28-Oct-2024 14:52:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-4	Lab Sample ID:	480-224872-4		
Client ID:	EW-1R-102324				
Operator ID:	AK	ALS Bottle#:	10	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

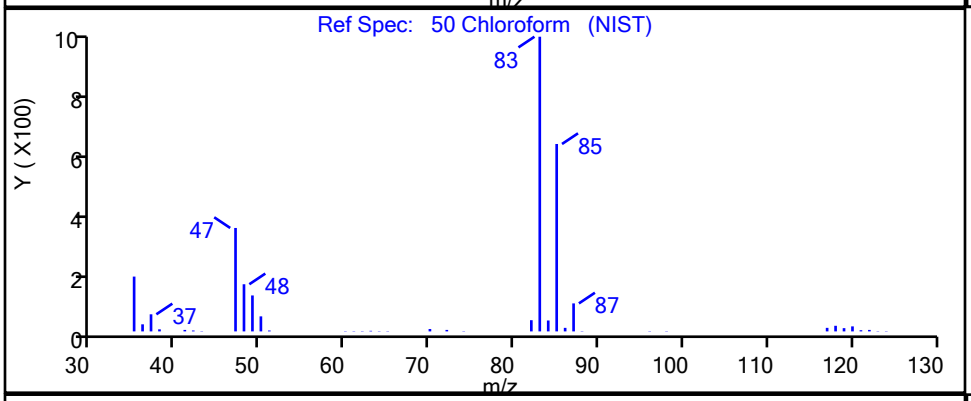
50 Chloroform, CAS: 67-66-3

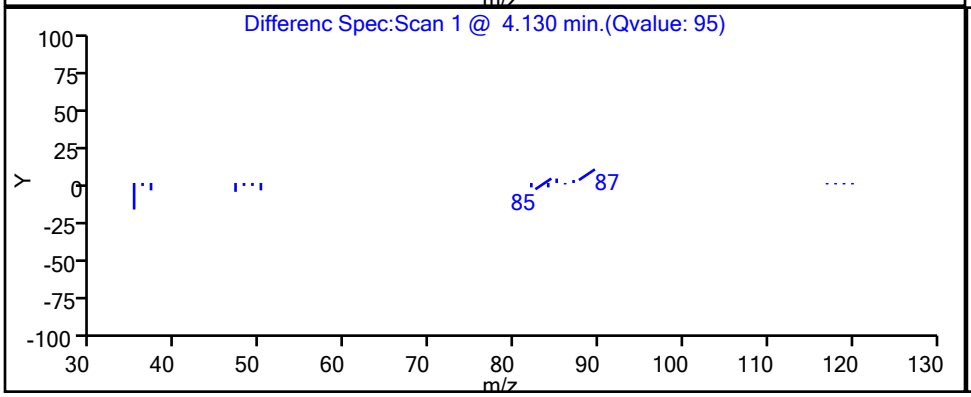


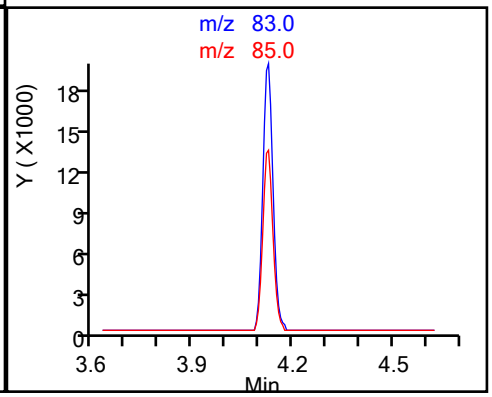












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-2-102324 | Lab Sample ID: 480-224872-5

Matrix: Water | Lab File ID: D8346.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 15:16

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	11		1.0	0.19
56-23-5	Carbon tetrachloride	49	F1	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	38		1.0	0.34
75-09-2	Methylene Chloride	2.8		1.0	0.44
127-18-4	Tetrachloroethene	3.5	F1	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	2.0		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d
Lims ID: 480-224872-A-5
Client ID: EW-2-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 15:16:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-5
Misc. Info.: 480-0120860-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	99208	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	216428	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	241853	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.248	0.007	92	181570	28.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	100605	27.8	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	518128	24.8	
26 Carbon disulfide	76	2.523	2.511	0.012	100	165013	11.1	
30 Methylene Chloride	84	2.810	2.804	0.006	97	18105	2.84	
50 Chloroform	83	4.120	4.120	0.000	94	365048	38.5	
55 Carbon tetrachloride	117	4.334	4.334	0.000	97	334701	48.7	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	95	9974	1.97	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.407	6.412	0.001	95	20321	3.53	
87 Chlorobenzene	112	7.114	7.114	0.006	96	7497	0.5346	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

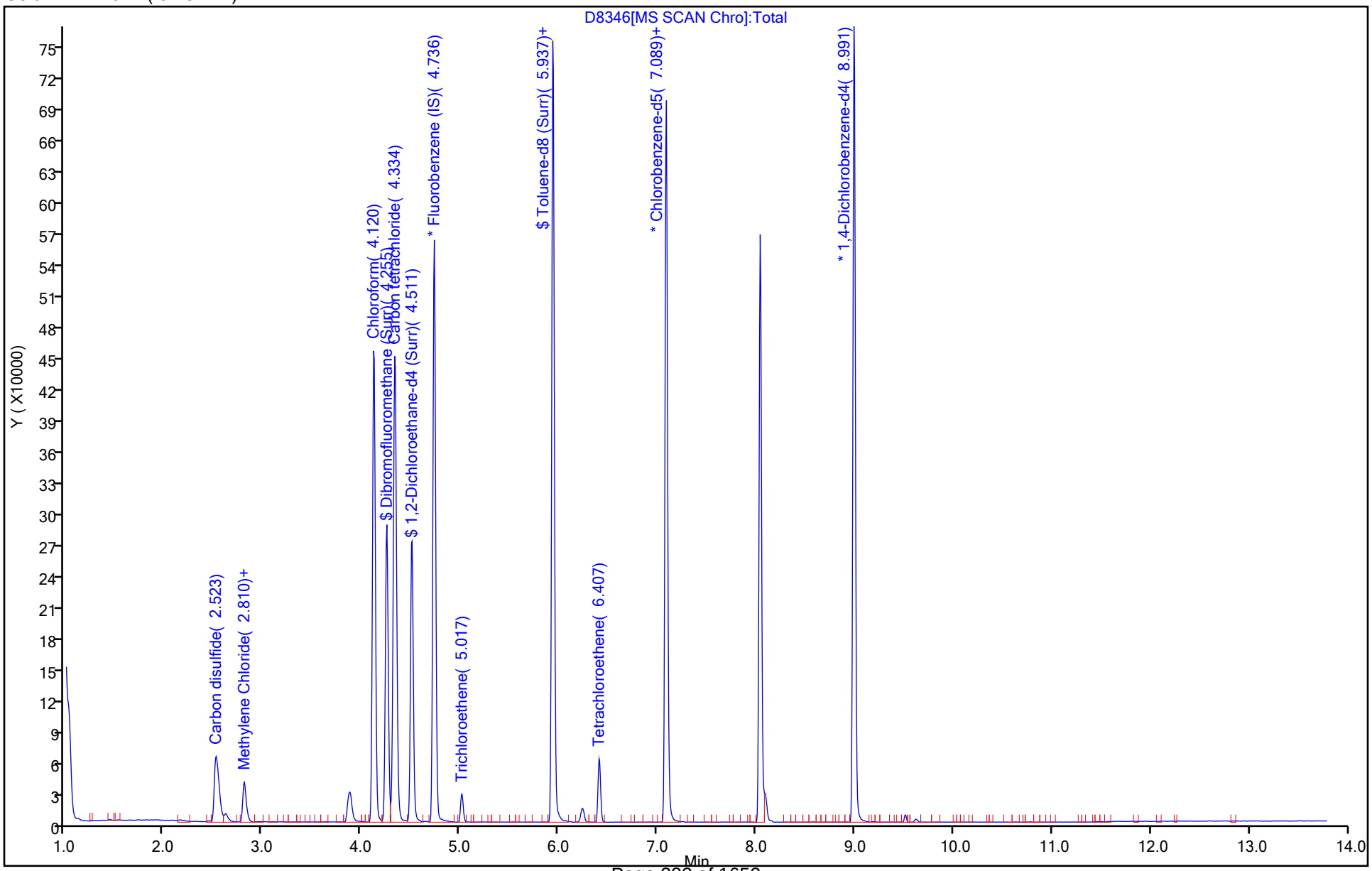
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d

Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5	Worklist Smp#:	13
Client ID:	EW-2-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d
Lims ID: 480-224872-A-5
Client ID: EW-2-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 15:16:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-5
Misc. Info.: 480-0120860-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.5	113.86
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.25
$ 5 Toluene-d8 (Surr)	25.0	24.8	99.23

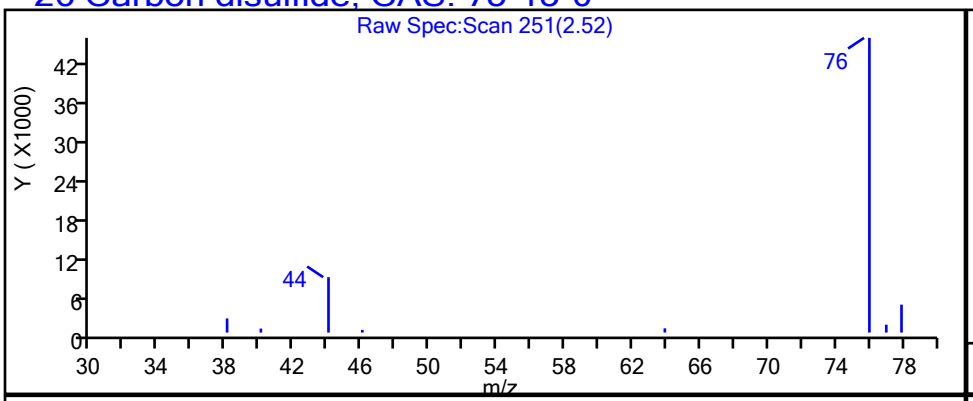
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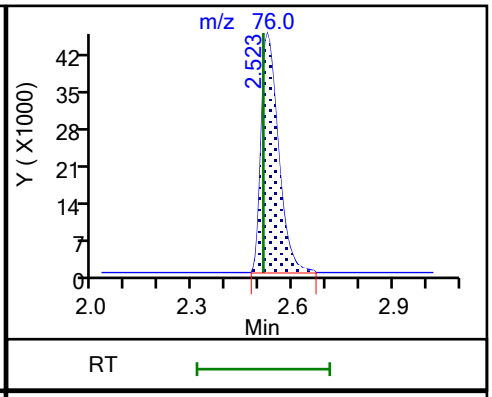
Eurofins Buffalo

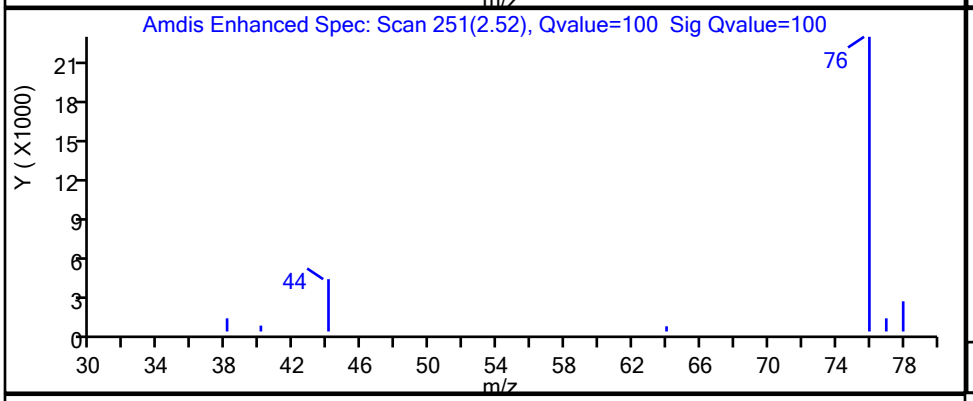
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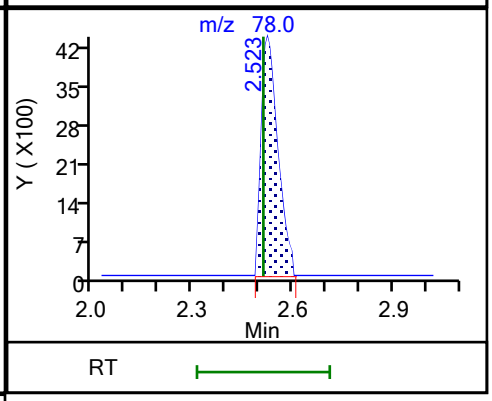
Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

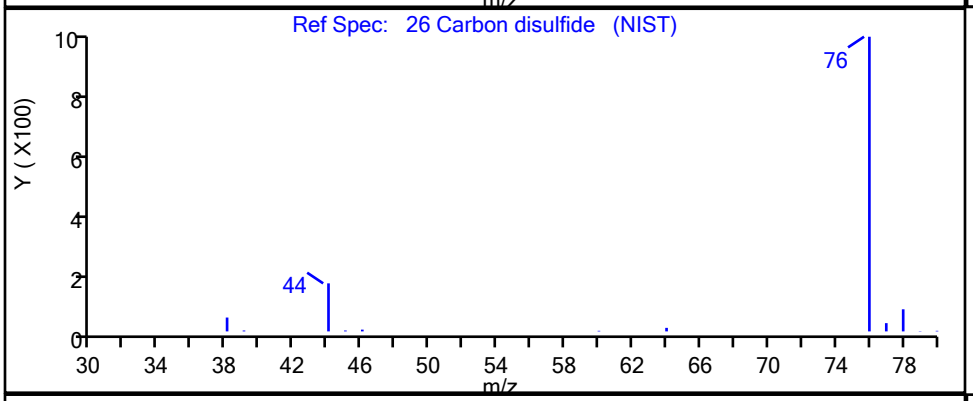
26 Carbon disulfide, CAS: 75-15-0

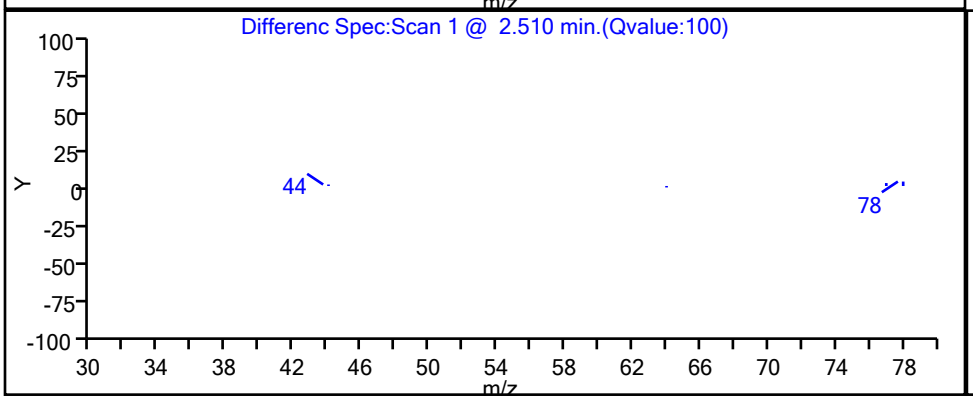


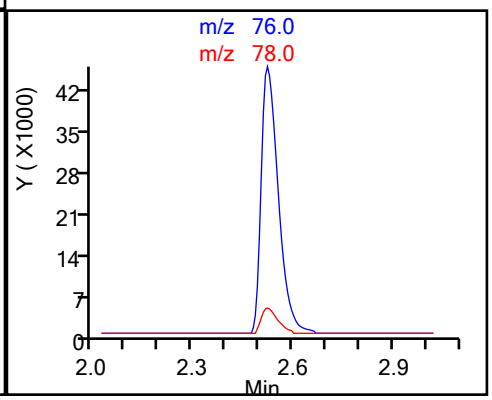












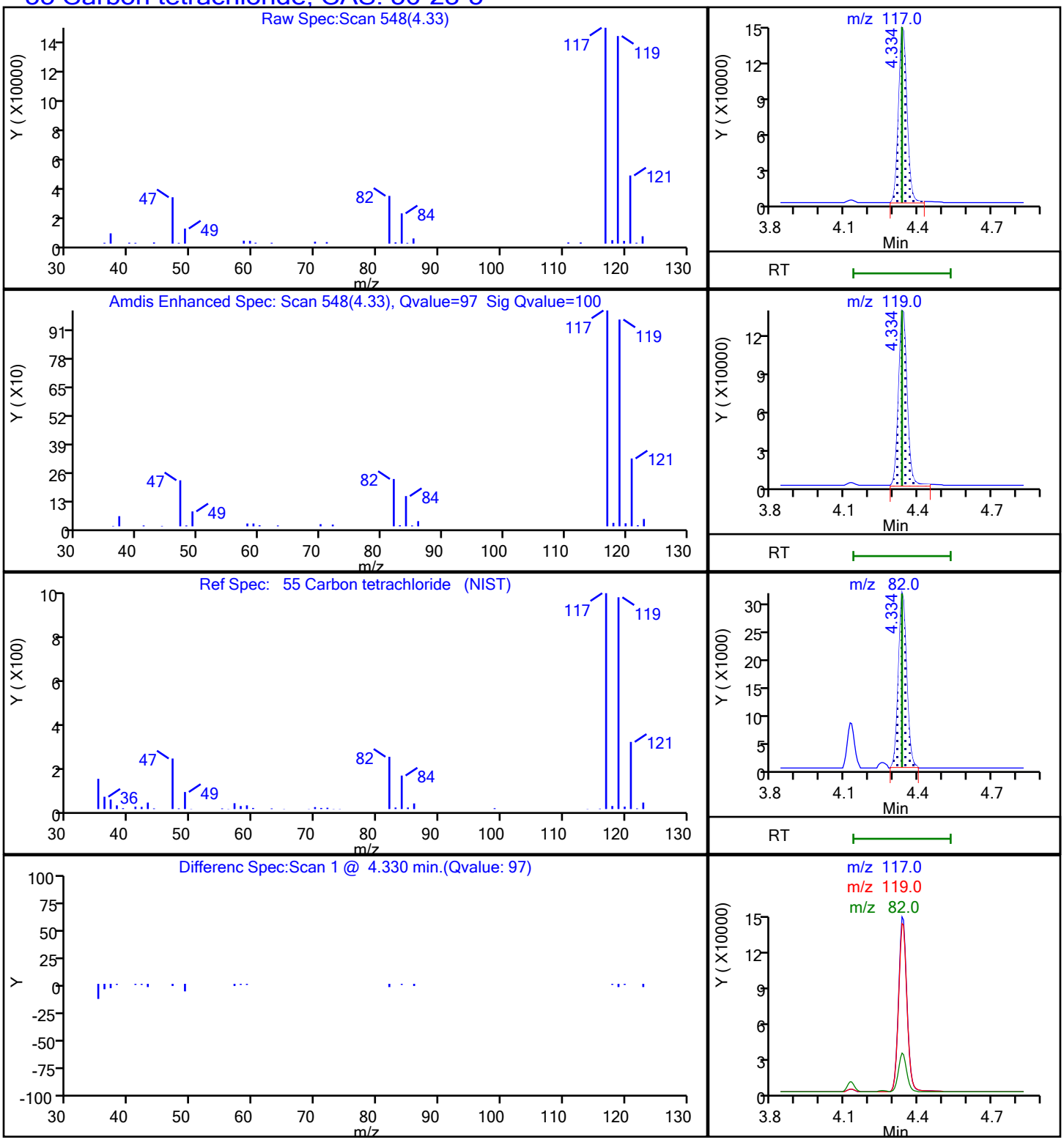
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d

Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



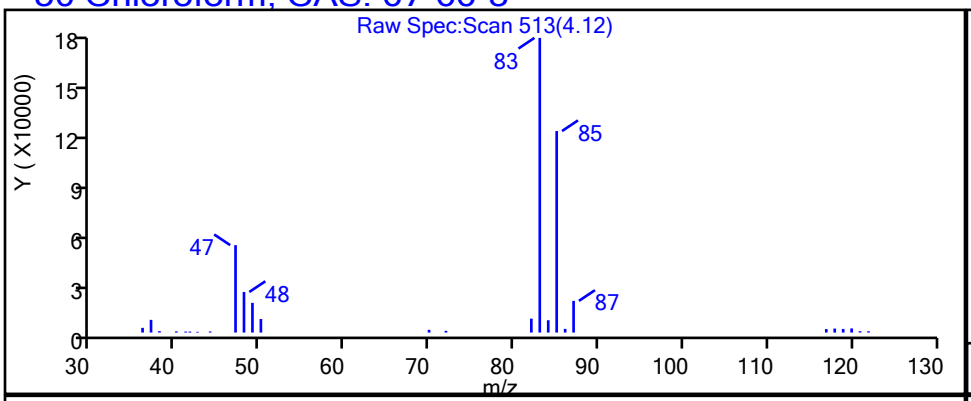
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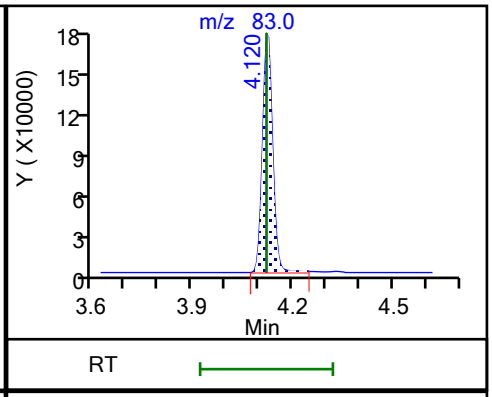
Eurofins Buffalo

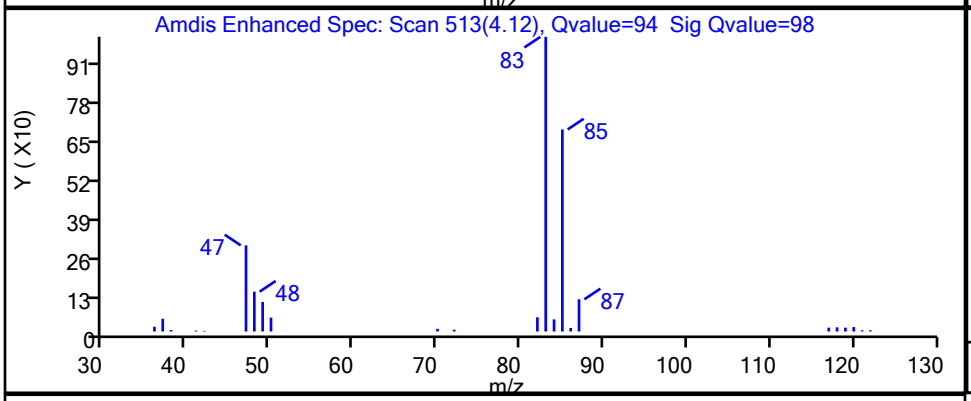
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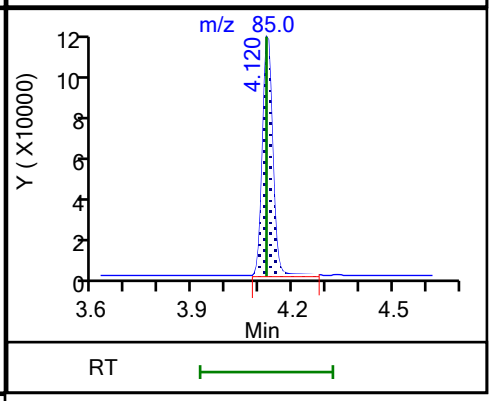
Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

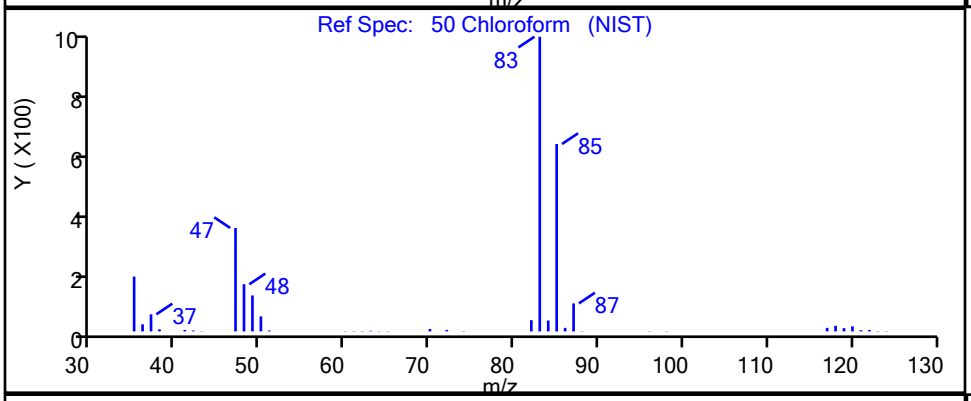
50 Chloroform, CAS: 67-66-3

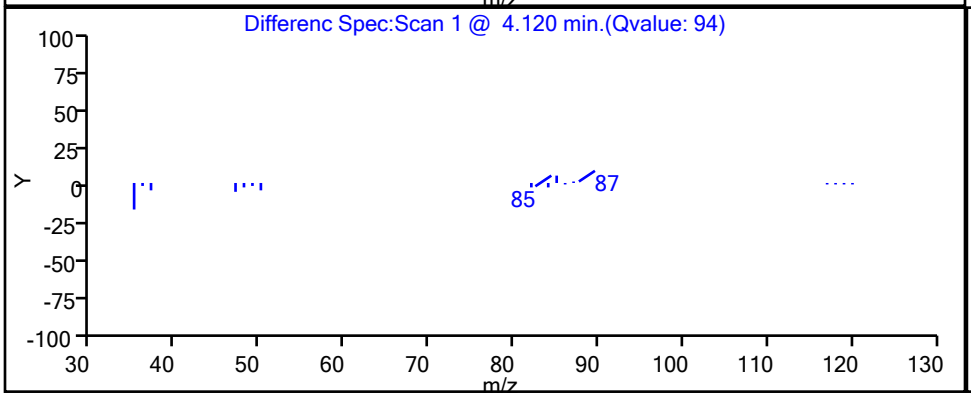


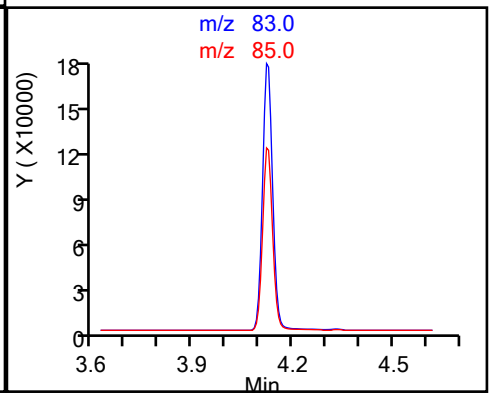












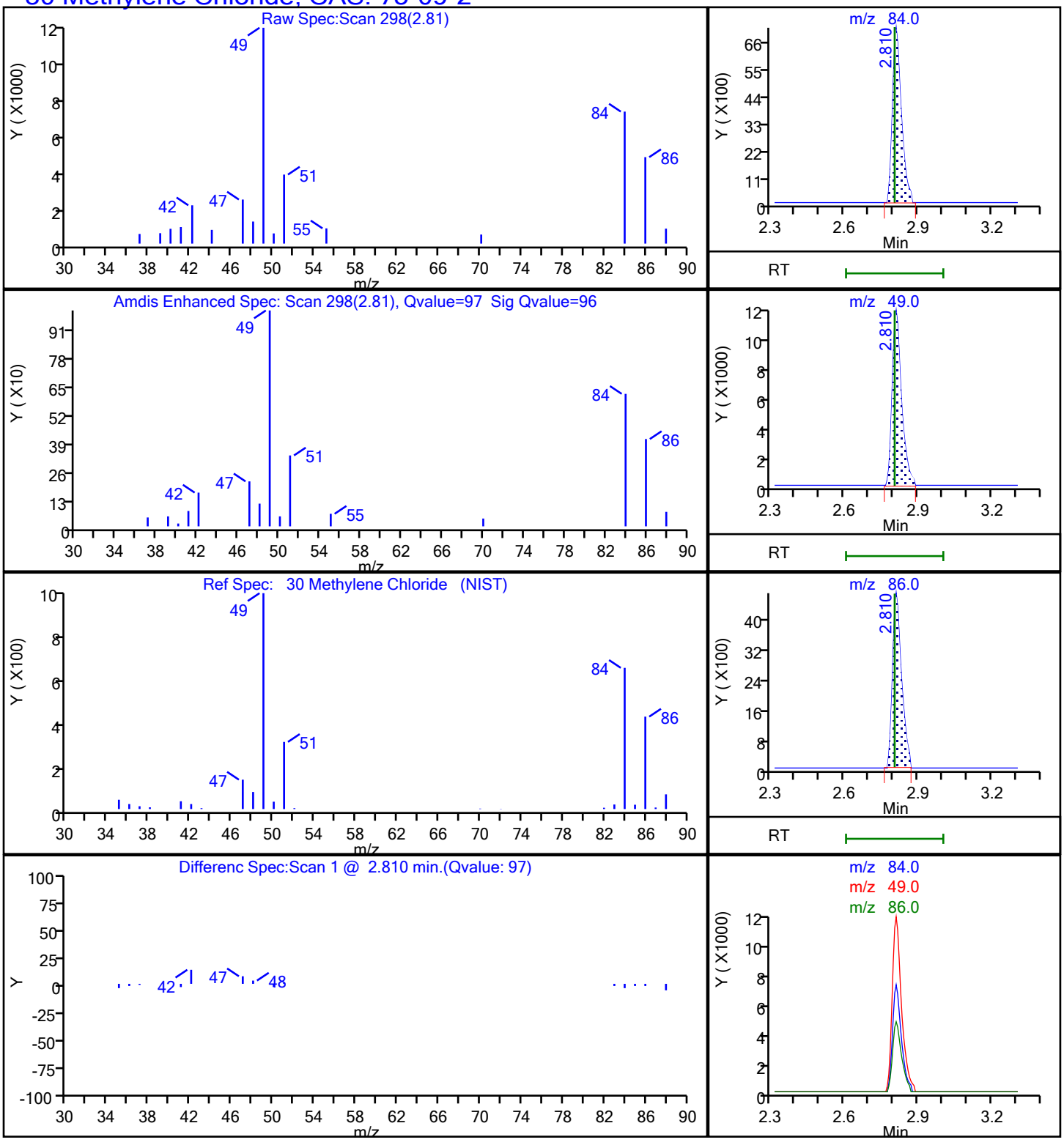
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d

Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



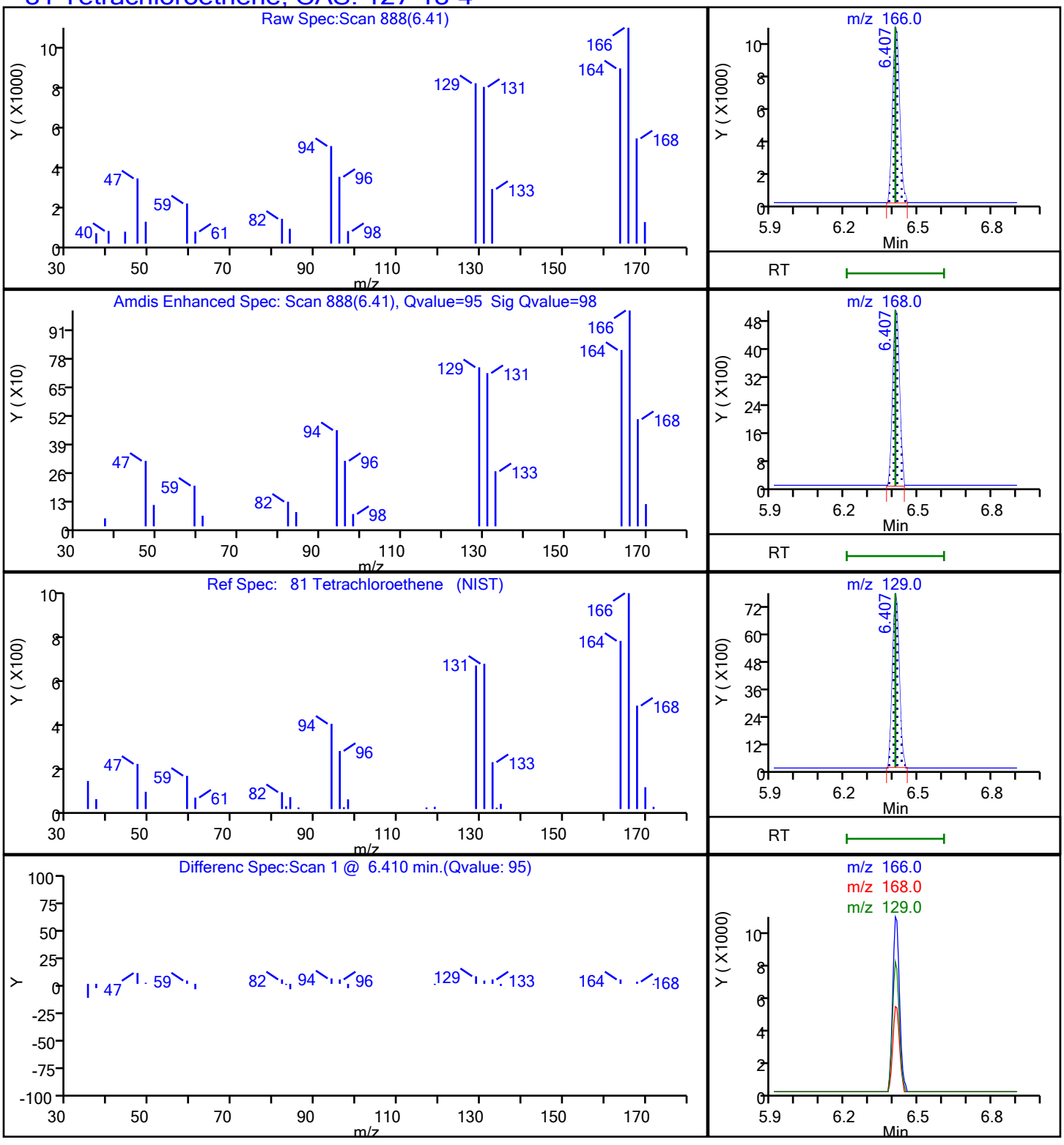
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d

Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



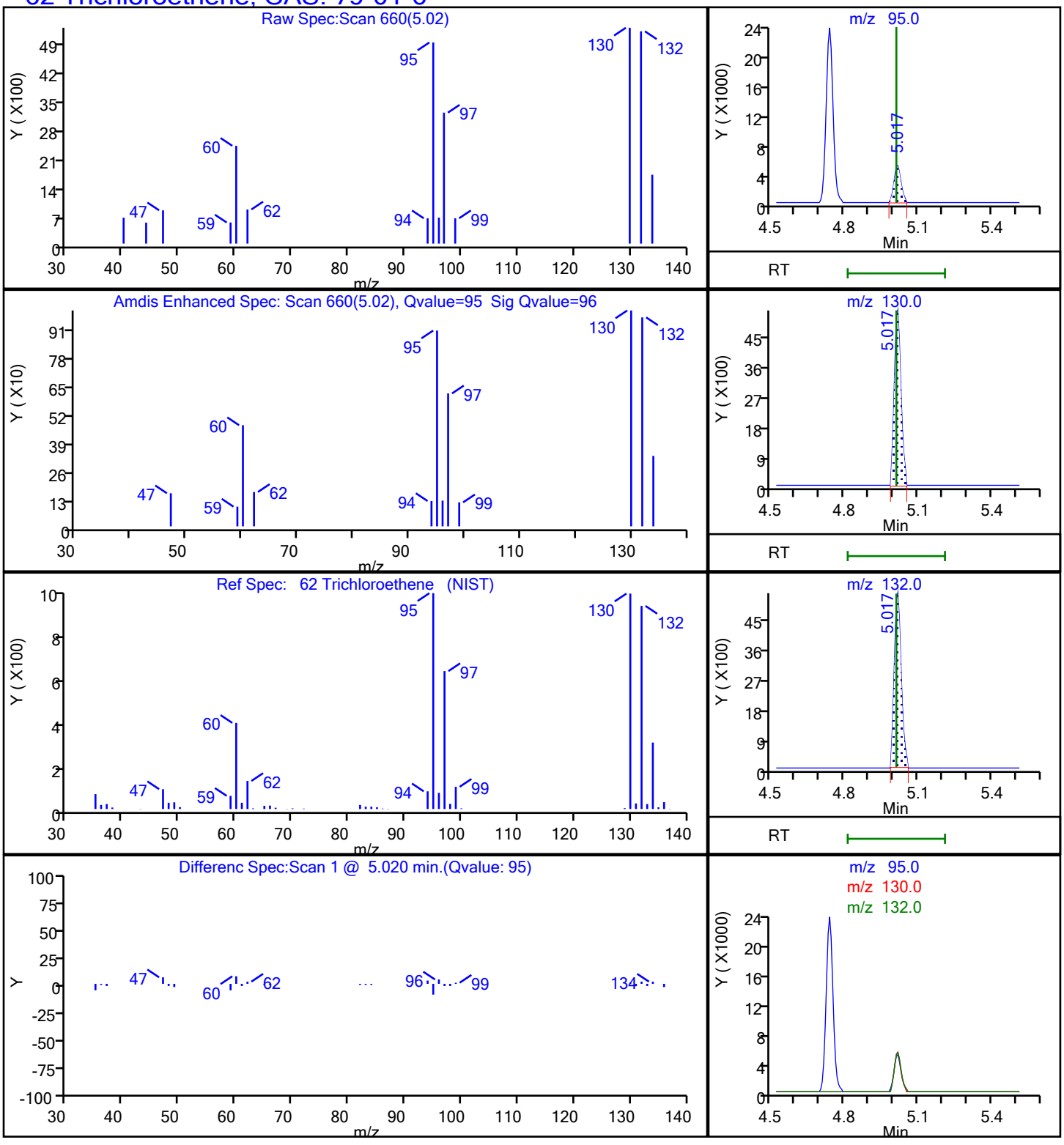
Report Date: 28-Oct-2024 16:19:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8346.d

Injection Date:	28-Oct-2024 15:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-5	Lab Sample ID:	480-224872-5		
Client ID:	EW-2-102324				
Operator ID:	AK	ALS Bottle#:	11	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-2-102324-DUP | Lab Sample ID: 480-224872-6

Matrix: Water | Lab File ID: D8347.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 15:38

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	1.5		1.0	0.19
56-23-5	Carbon tetrachloride	52		1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	41		1.0	0.34
75-09-2	Methylene Chloride	3.0		1.0	0.44
127-18-4	Tetrachloroethene	4.2		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	2.2		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	117		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d
Lims ID: 480-224872-A-6
Client ID: EW-2-102324-DUP
Sample Type: Client
Inject. Date: 28-Oct-2024 15:38:30 ALS Bottle#: 12 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-6
Misc. Info.: 480-0120860-014
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	95738	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	86	192326	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	230534	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.248	0.006	93	179787	29.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	99	99919	28.6	
$ 5 Toluene-d8 (Surr)	98	5.943	5.937	0.006	94	477768	25.7	
26 Carbon disulfide	76	2.523	2.511	0.012	100	21548	1.50	
30 Methylene Chloride	84	2.810	2.804	0.006	96	18462	3.05	
50 Chloroform	83	4.126	4.120	0.006	94	373415	40.8	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	344372	51.9	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	95	10718	2.19	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.407	6.412	0.001	97	21491	4.20	
87 Chlorobenzene	112	7.114	7.114	0.006	96	7022	0.5634	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

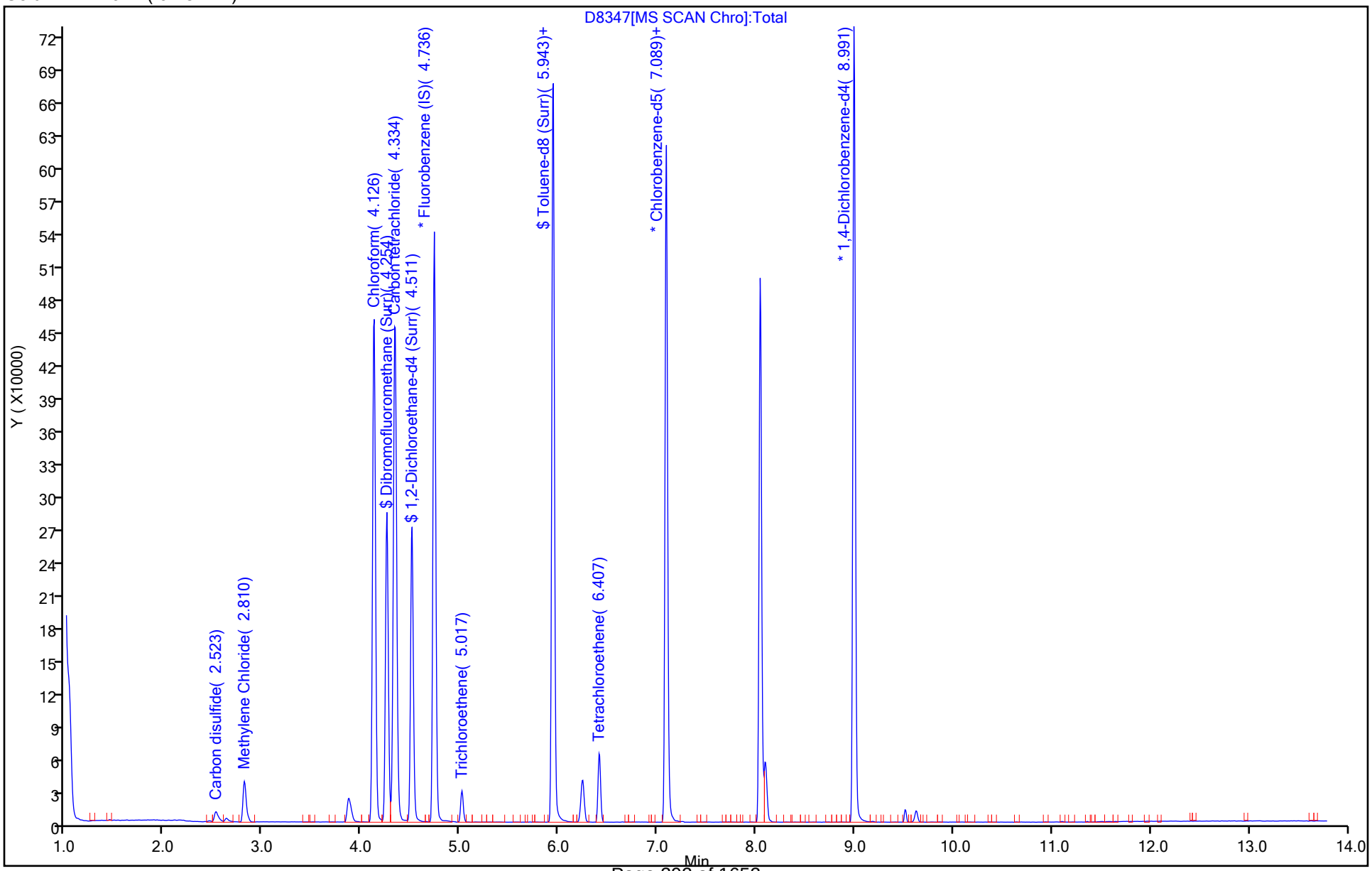
Report Date: 28-Oct-2024 16:19:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6	Worklist Smp#:	14
Client ID:	EW-2-102324-DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d				
Lims ID:	480-224872-A-6				
Client ID:	EW-2-102324-DUP				
Sample Type:	Client				
Inject. Date:	28-Oct-2024 15:38:30	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-224872-A-6				
Misc. Info.:	480-0120860-014				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Oct-2024 16:18:57	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1637				

First Level Reviewer: R3QB Date: 28-Oct-2024 16:19:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.2	116.83
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.6	114.49
$ 5 Toluene-d8 (Surr)	25.0	25.7	102.97

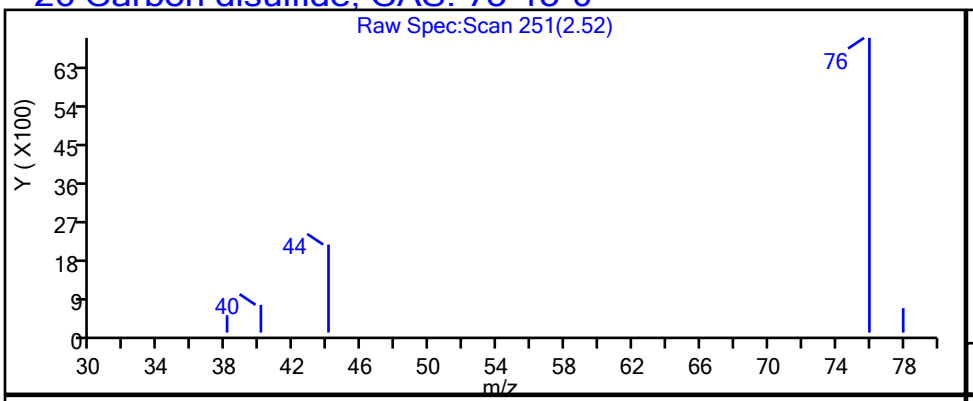
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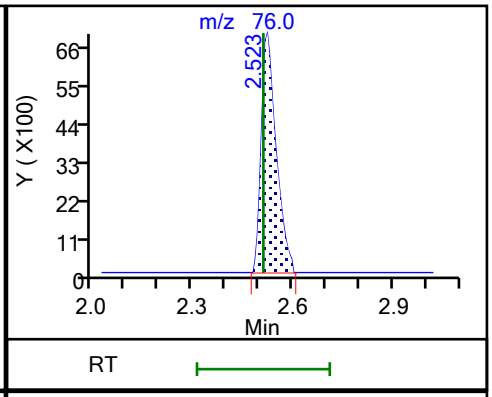
Eurofins Buffalo

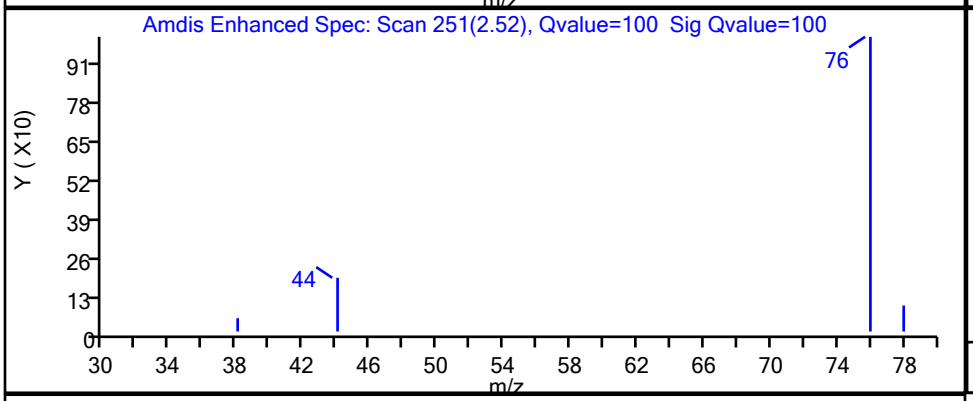
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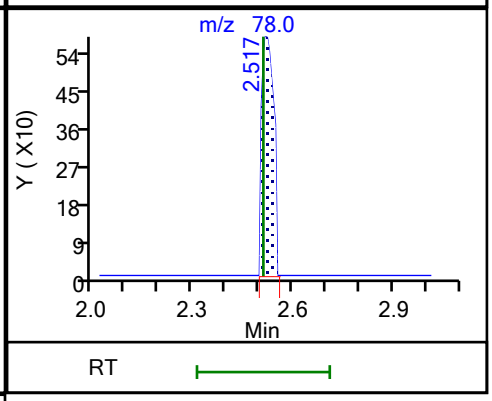
Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6		
Client ID:	EW-2-102324-DUP				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

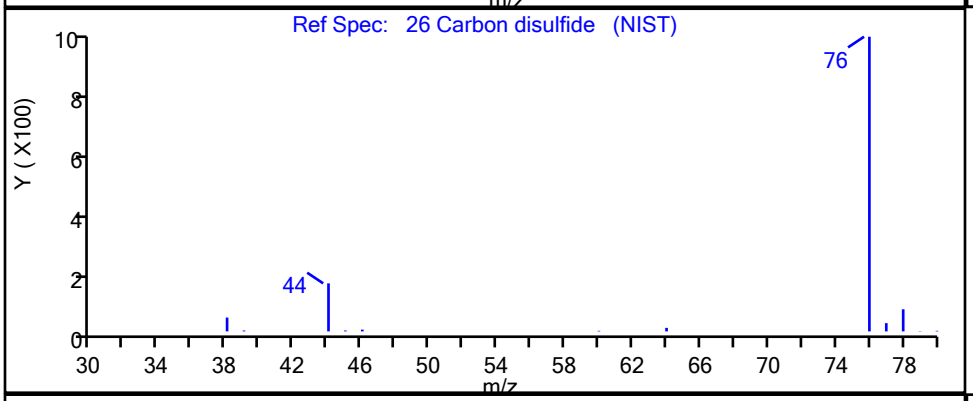
26 Carbon disulfide, CAS: 75-15-0

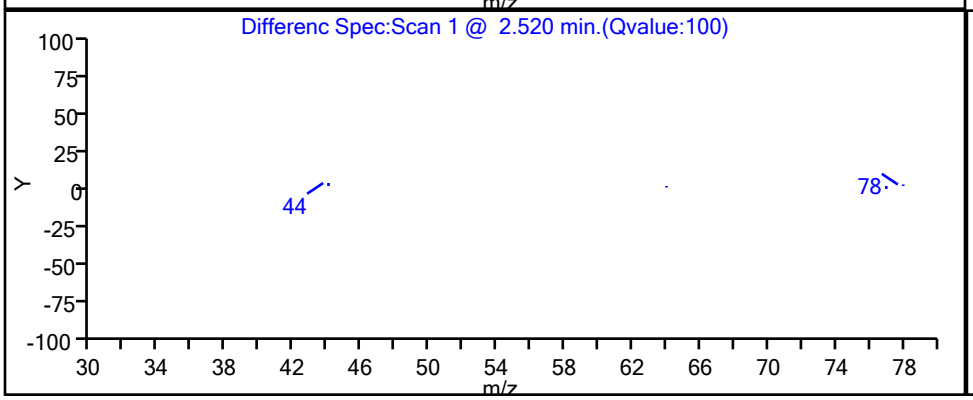


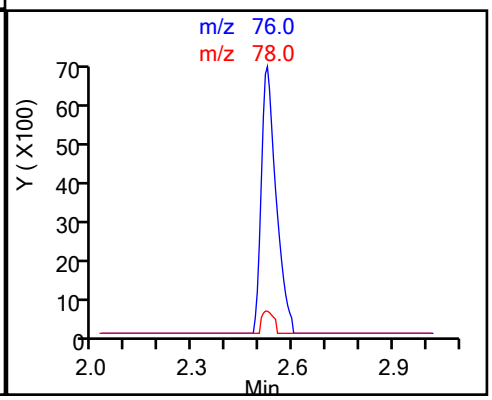












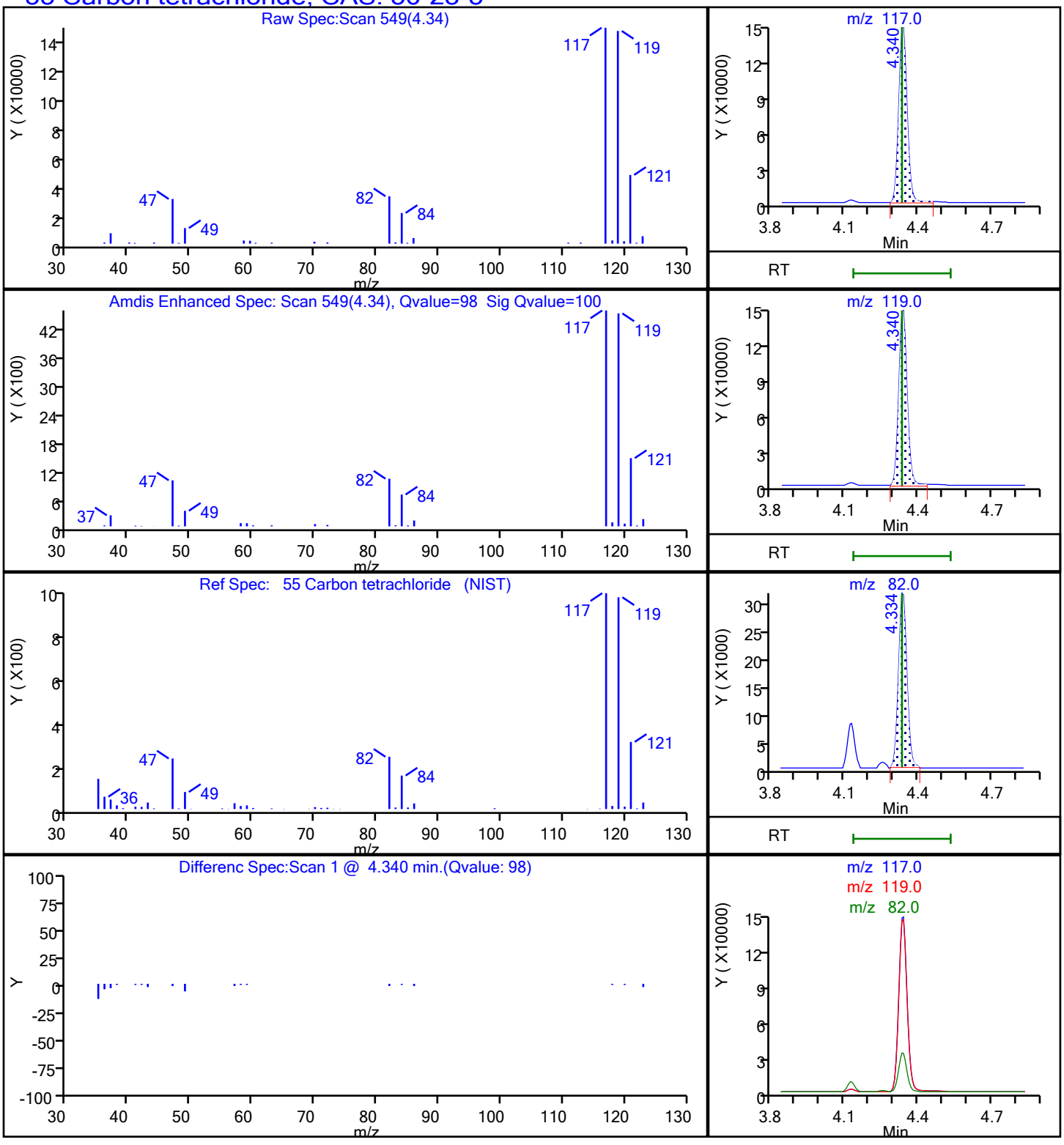
Report Date: 28-Oct-2024 16:19:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6		
Client ID:	EW-2-102324-DUP				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



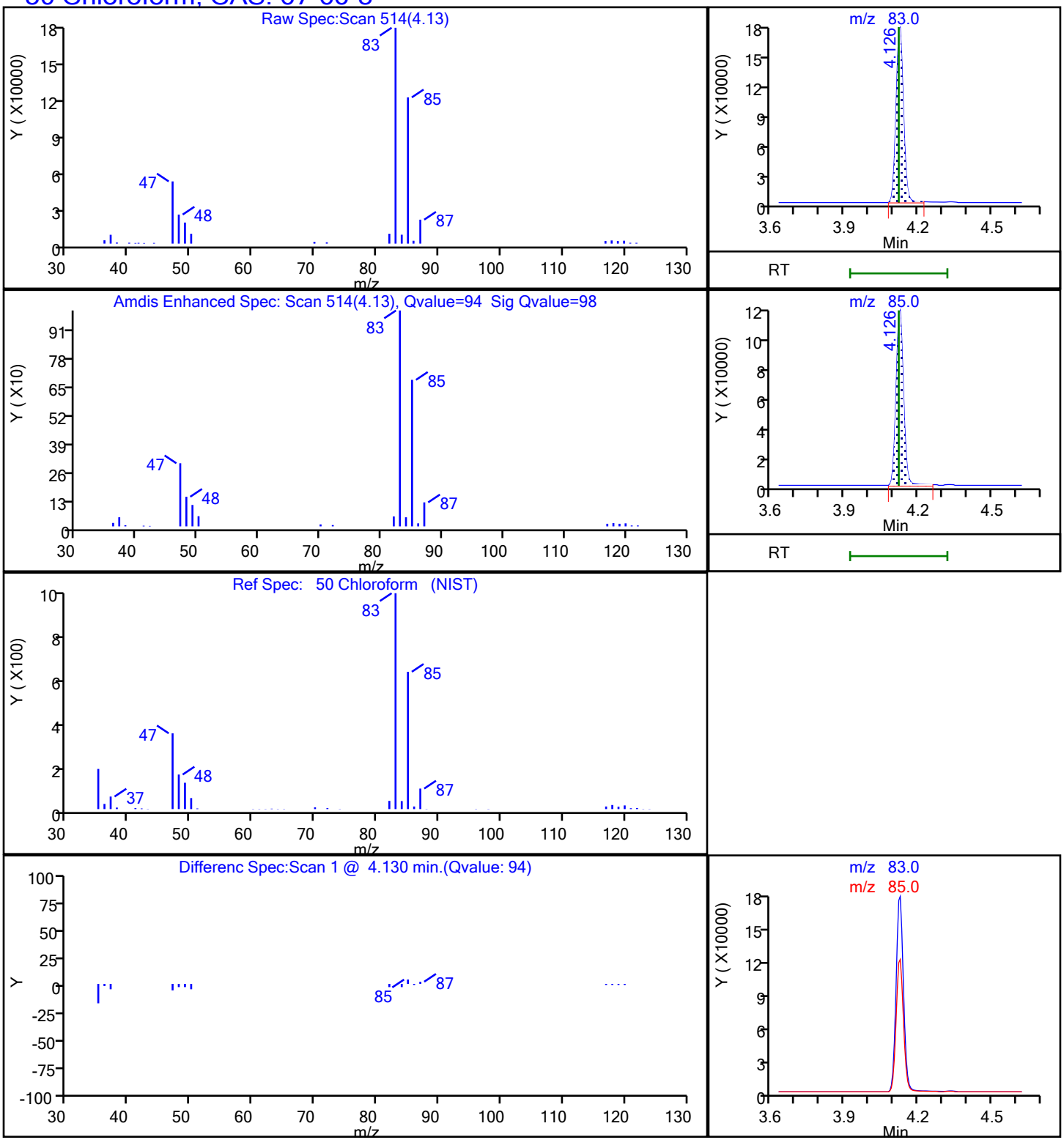
Report Date: 28-Oct-2024 16:19:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6		
Client ID:	EW-2-102324-DUP				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



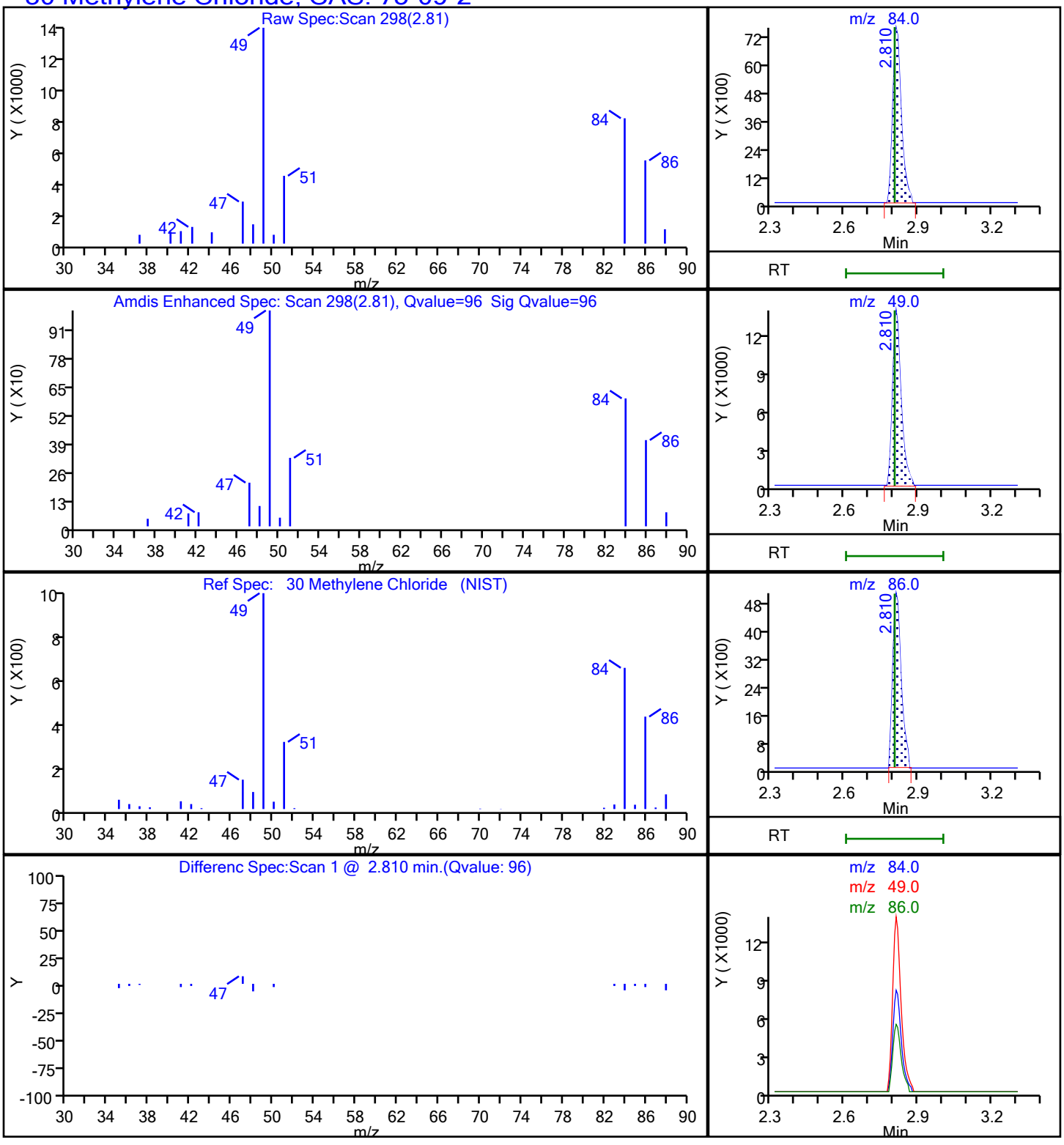
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6
Client ID:	EW-2-102324-DUP		
Operator ID:	AK	ALS Bottle#:	12 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



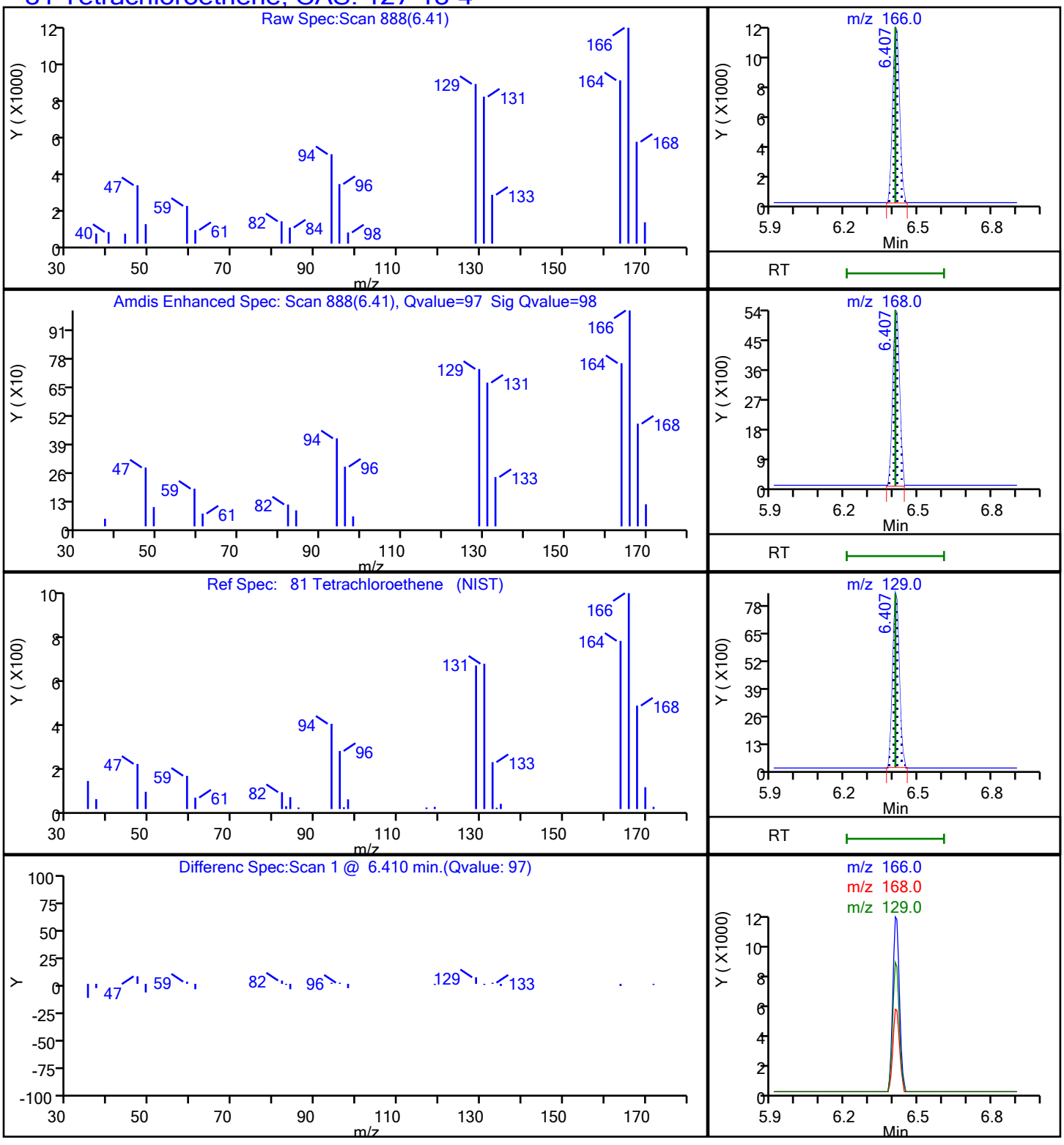
Report Date: 28-Oct-2024 16:19:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6		
Client ID:	EW-2-102324-DUP				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



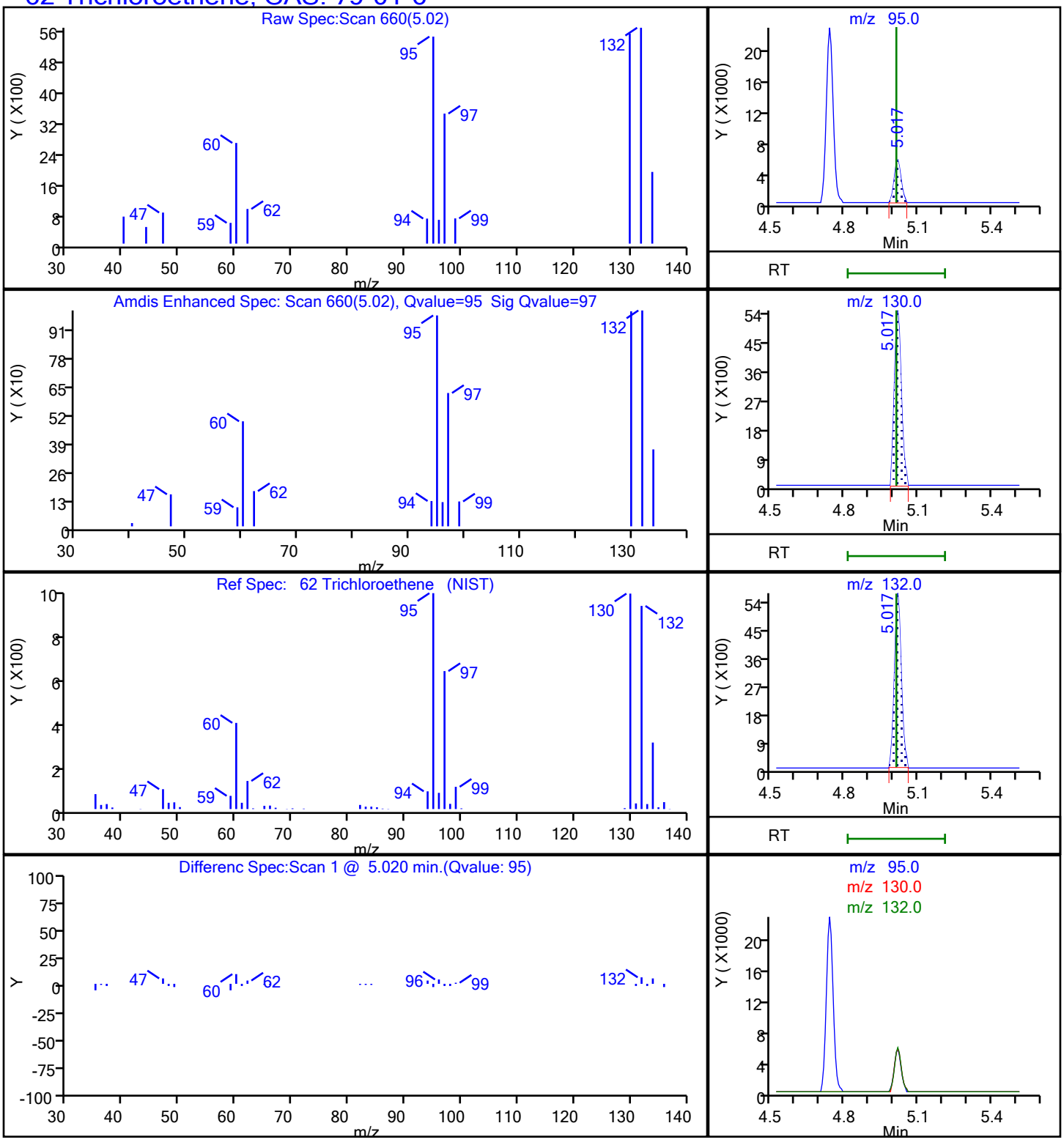
Report Date: 28-Oct-2024 16:19:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8347.d

Injection Date:	28-Oct-2024 15:38:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-6	Lab Sample ID:	480-224872-6		
Client ID:	EW-2-102324-DUP				
Operator ID:	AK	ALS Bottle#:	12	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-3-102324 | Lab Sample ID: 480-224872-7

Matrix: Water | Lab File ID: D8348.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 16:00

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21	U	50	21
75-15-0	Carbon disulfide	200		50	9.5
56-23-5	Carbon tetrachloride	1700	F1	50	14
108-90-7	Chlorobenzene	38	U	50	38
67-66-3	Chloroform	820		50	17
75-09-2	Methylene Chloride	43	J	50	22
127-18-4	Tetrachloroethene	24	J	50	18
108-88-3	Toluene	26	U	50	26
79-01-6	Trichloroethene	75		50	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d
Lims ID: 480-224872-A-7
Client ID: EW-3-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 16:00:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224872-A-7
Misc. Info.: 480-0120860-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:20:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	98572	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	213892	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	233909	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.248	0.007	92	179255	28.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	99147	27.6	
$ 5 Toluene-d8 (Surr)	98	5.943	5.937	0.006	94	507602	24.6	
26 Carbon disulfide	76	2.523	2.511	0.012	100	58389	3.94	
30 Methylene Chloride	84	2.810	2.804	0.006	97	8396	0.8631	
50 Chloroform	83	4.127	4.120	0.007	95	154054	16.3	
55 Carbon tetrachloride	117	4.334	4.334	0.000	98	233270	34.2	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	94	7511	1.49	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.413	6.412	0.007	91	2763	0.4853	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

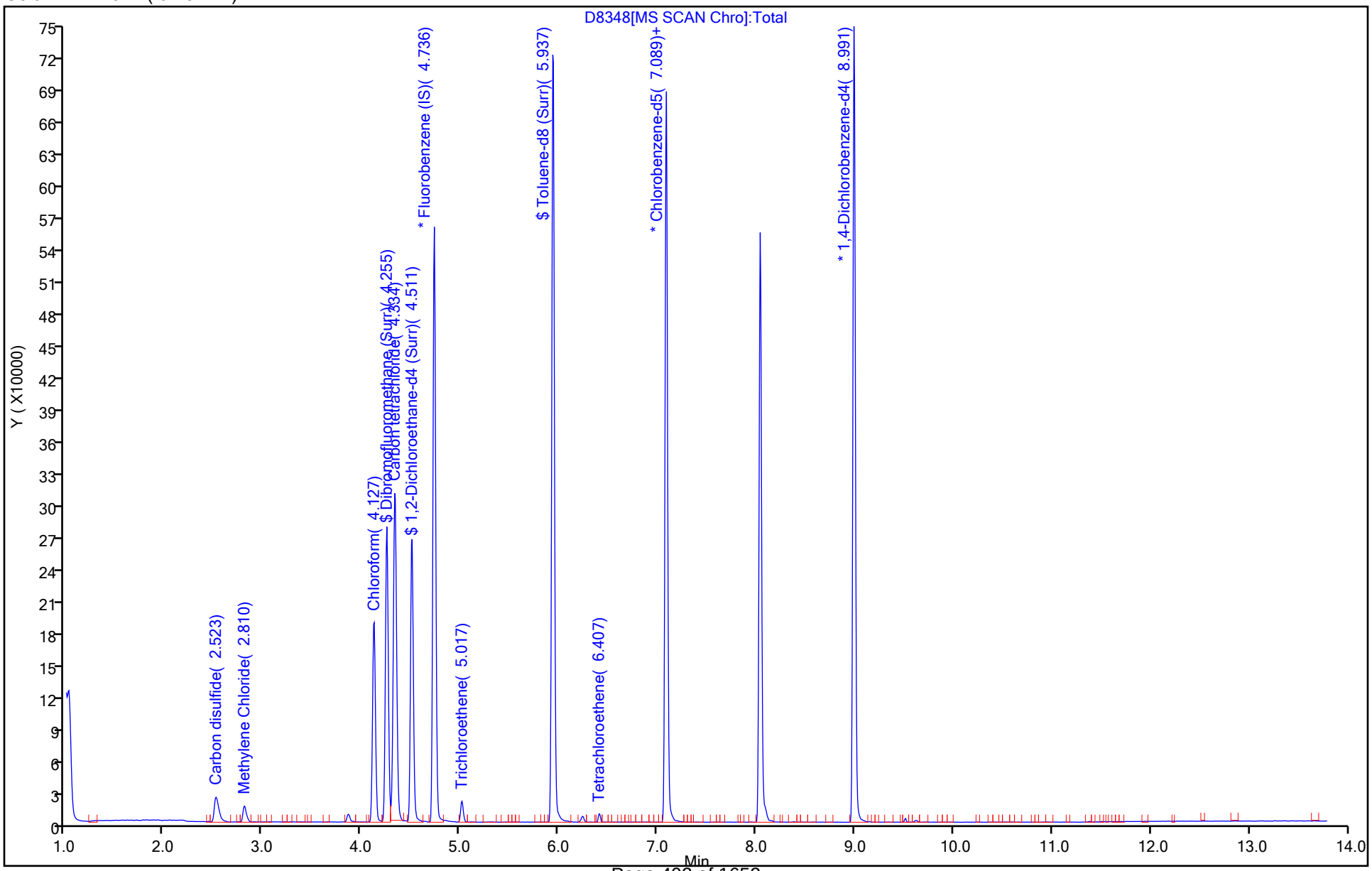
Report Date: 28-Oct-2024 16:20:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d

Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7	Worklist Smp#:	15
Client ID:	EW-3-102324				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	13
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d
Lims ID: 480-224872-A-7
Client ID: EW-3-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 16:00:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224872-A-7
Misc. Info.: 480-0120860-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:18:57 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:20:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.3	113.14
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.34
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.37

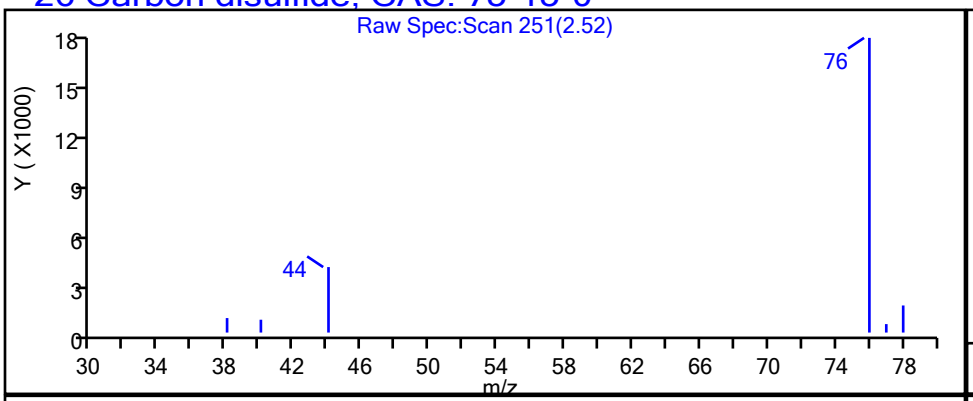
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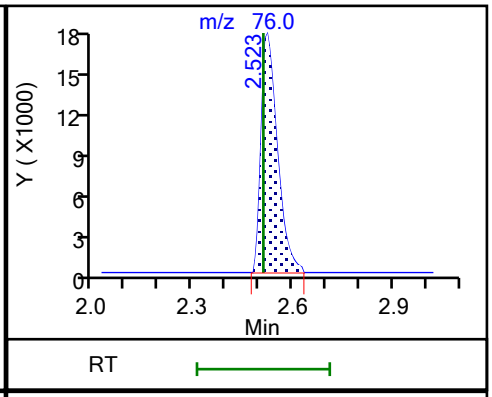
Eurofins Buffalo

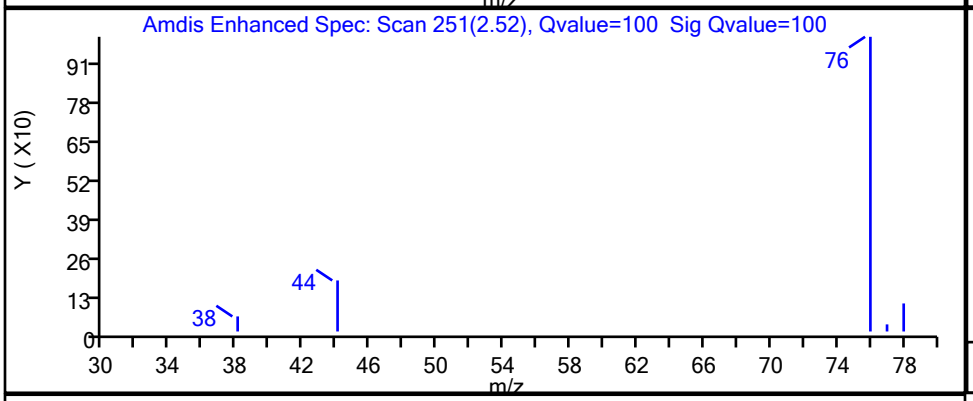
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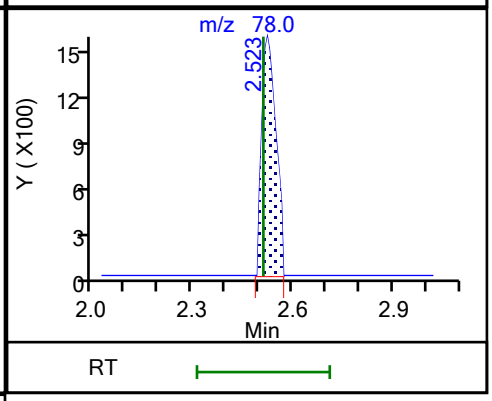
Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

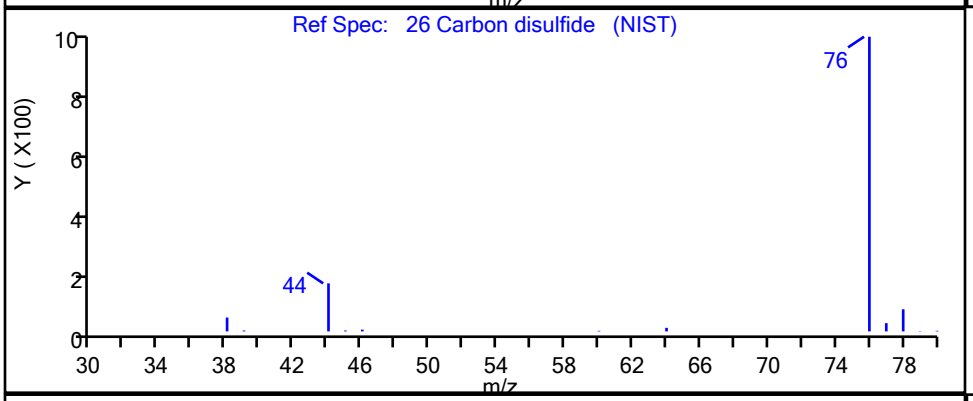
26 Carbon disulfide, CAS: 75-15-0

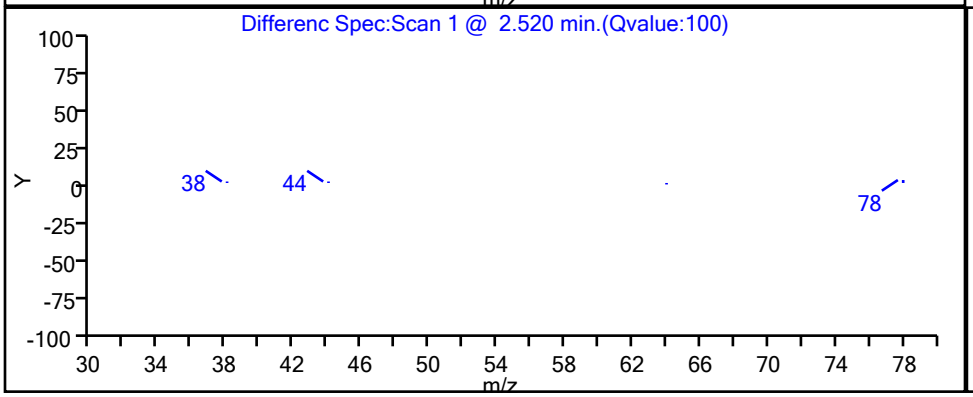


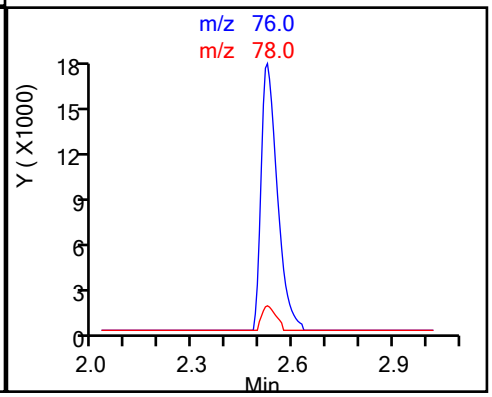












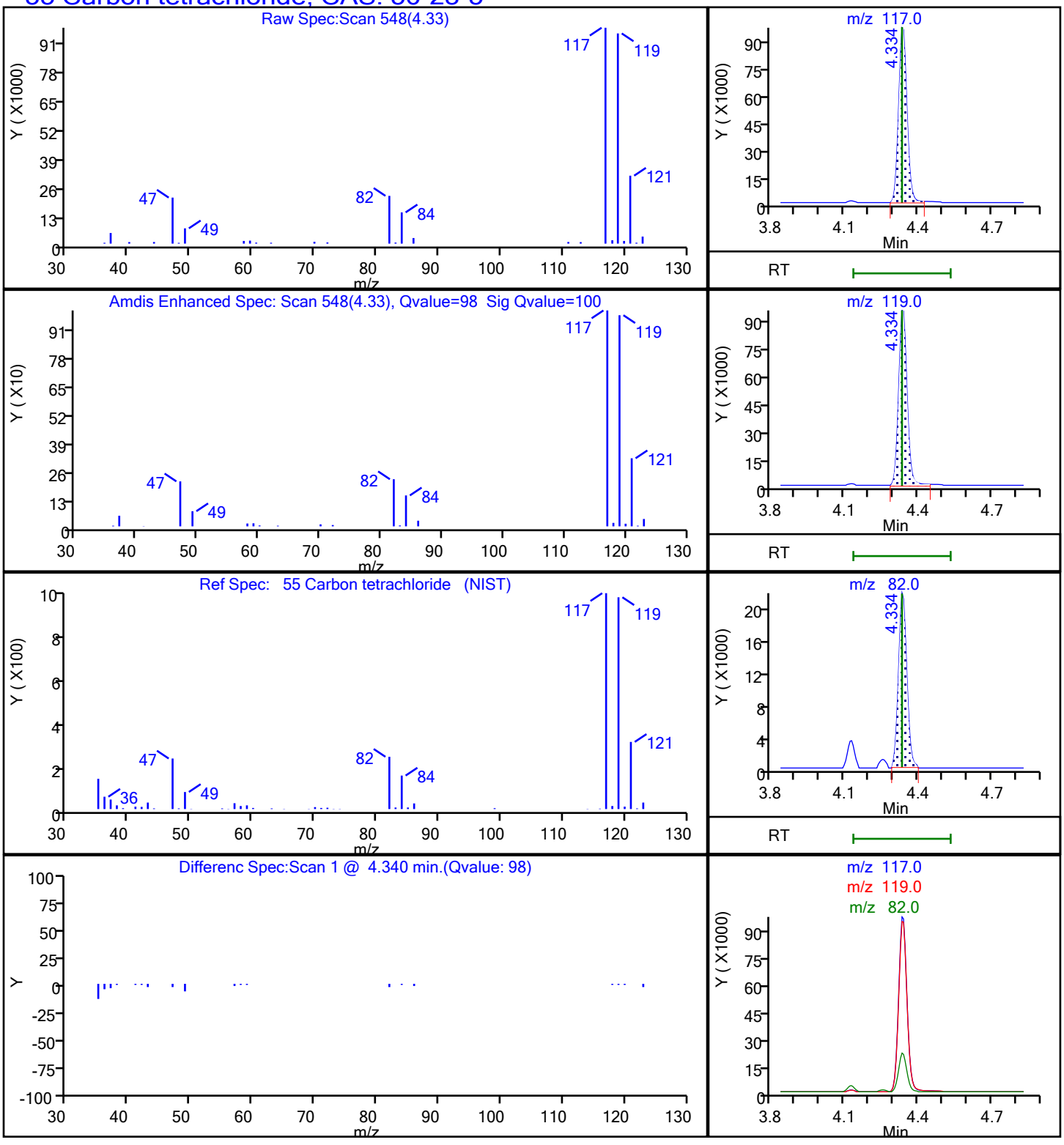
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d

Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



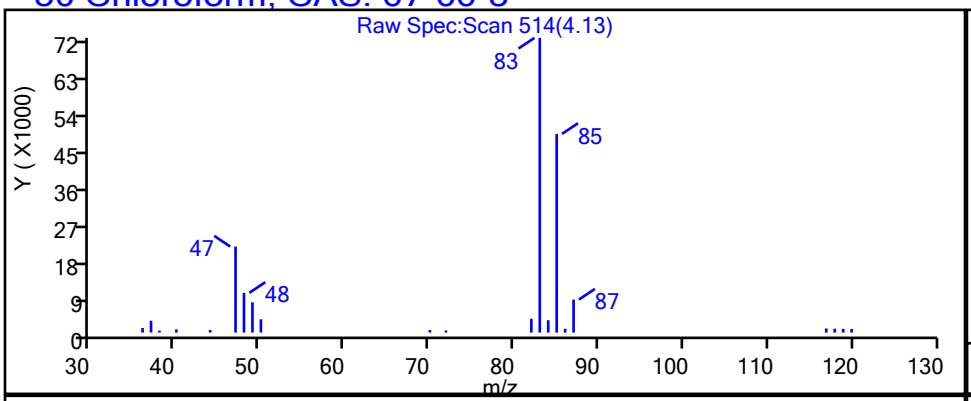
Report Date: 28-Oct-2024 16:20:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

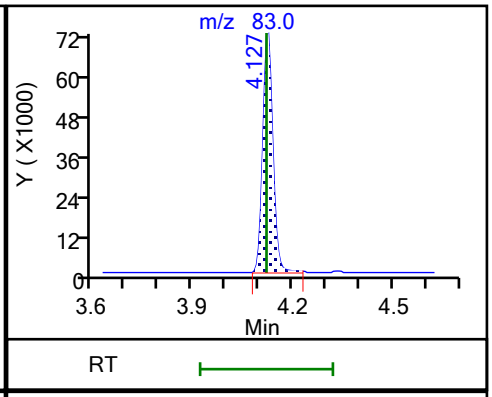
Eurofins Buffalo

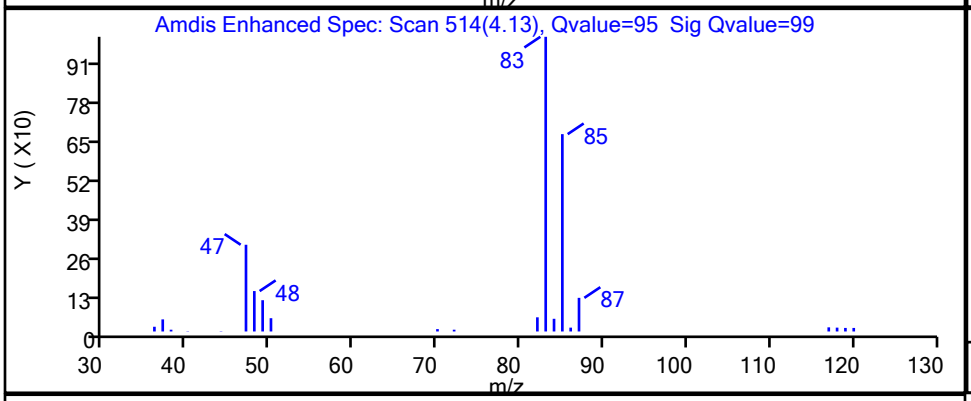
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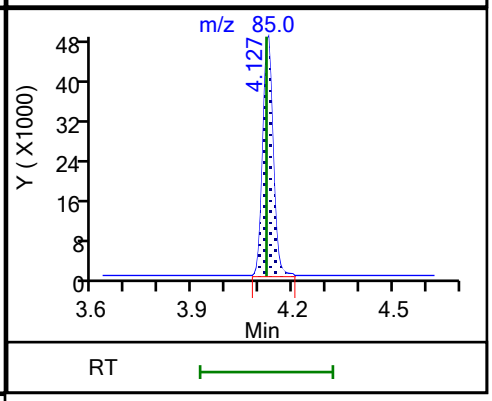
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Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

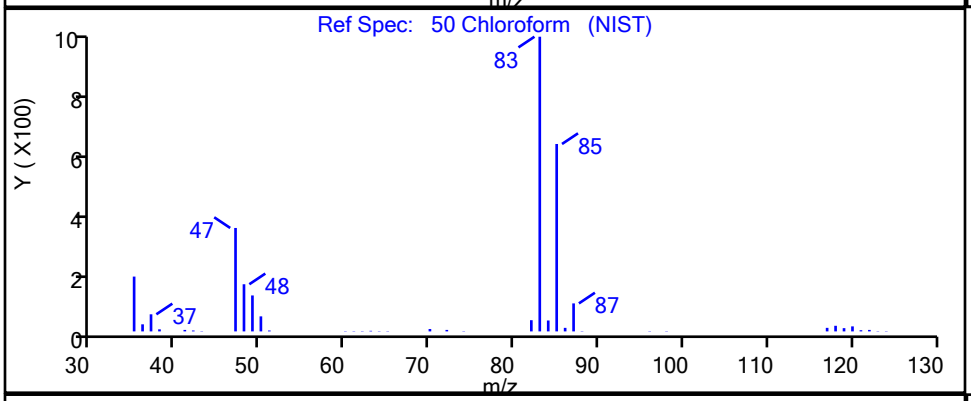
50 Chloroform, CAS: 67-66-3

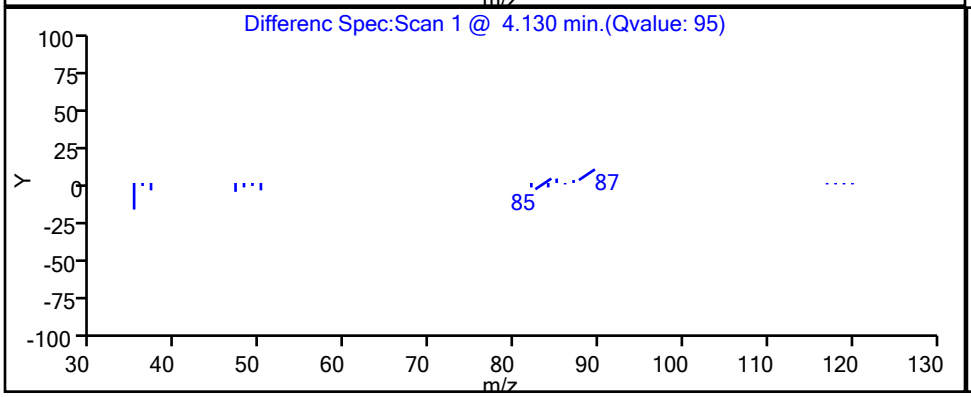


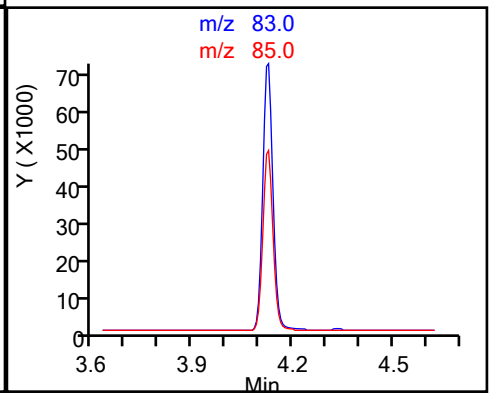












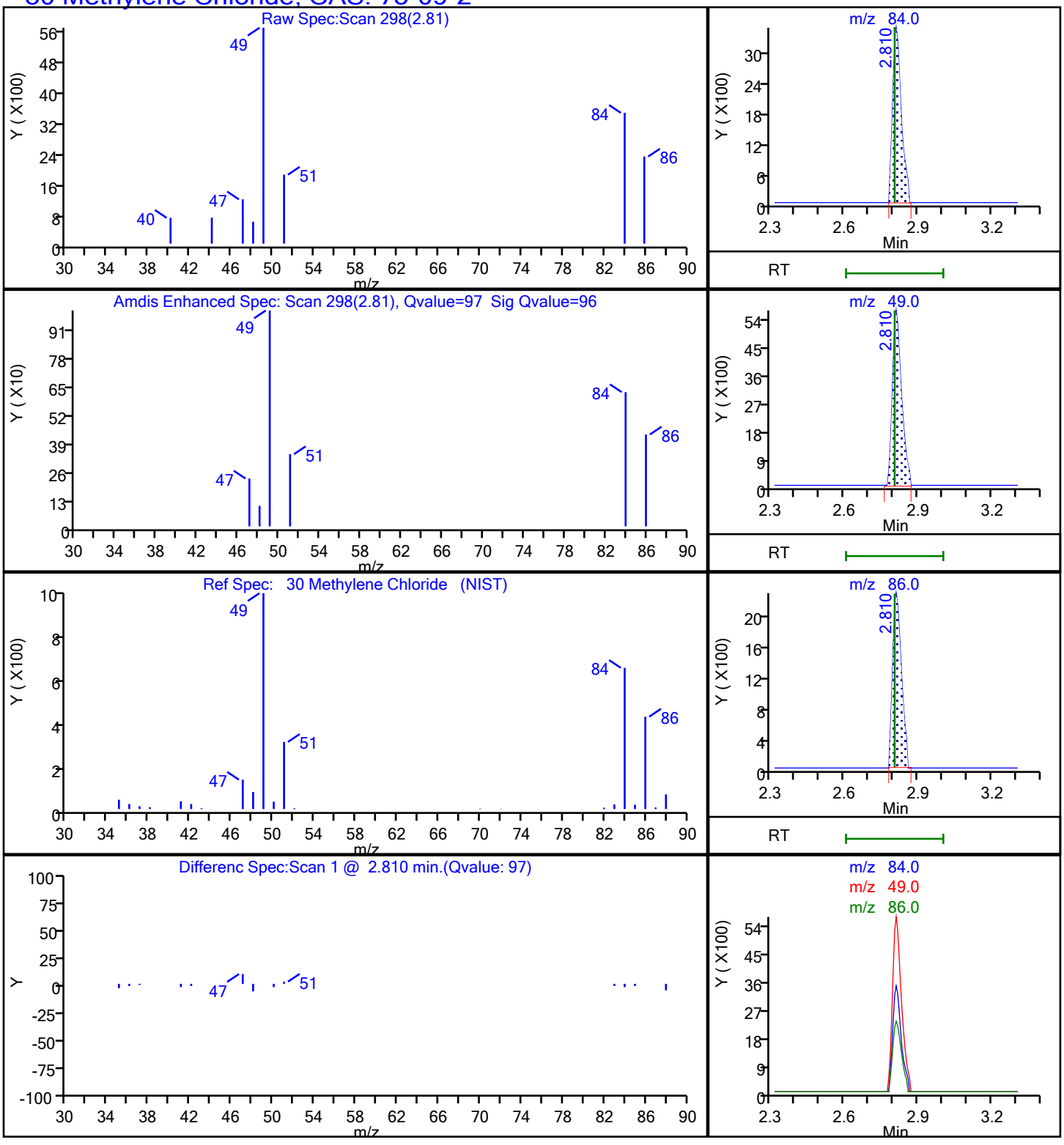
Report Date: 28-Oct-2024 16:20:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d

Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



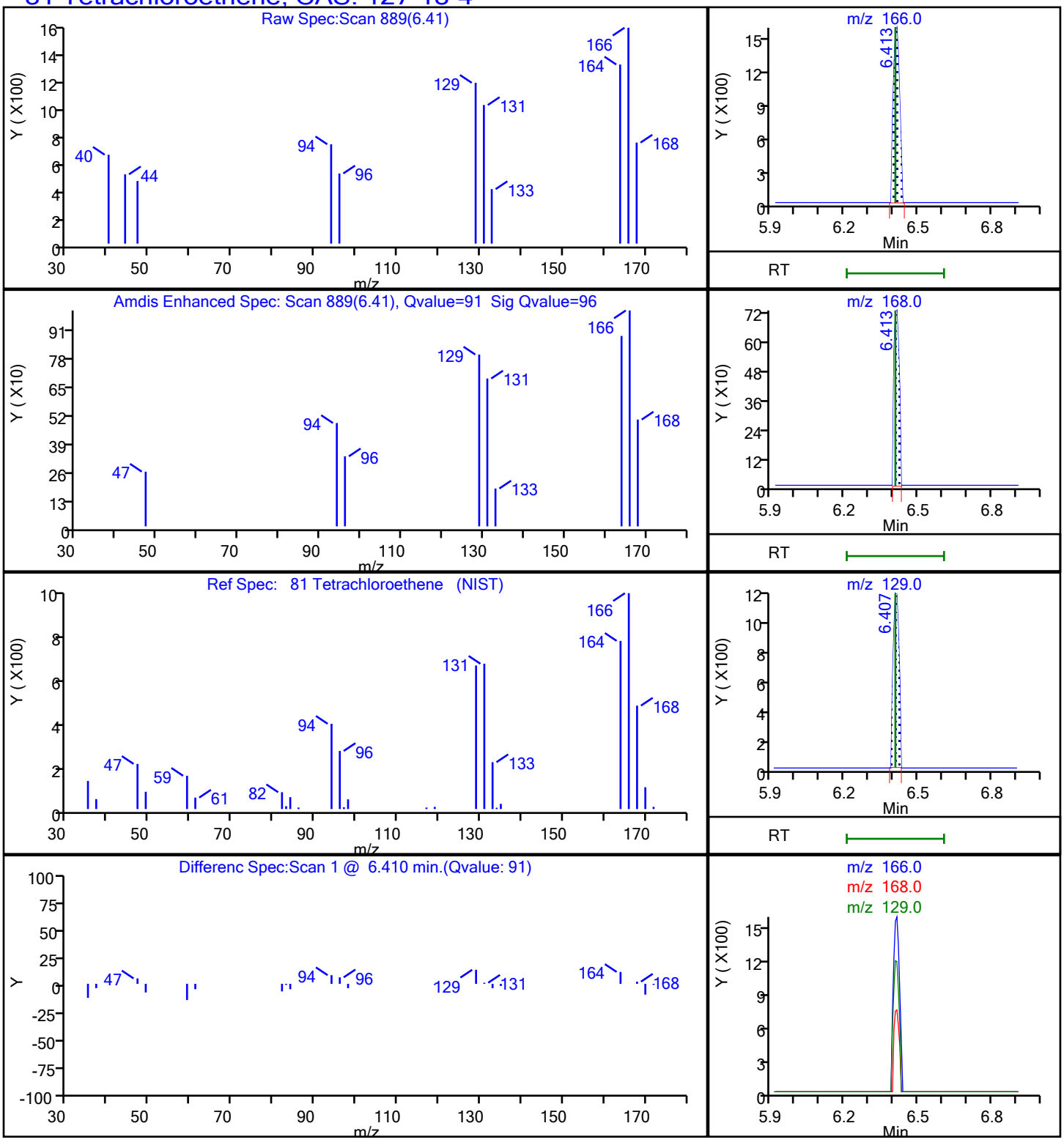
Report Date: 28-Oct-2024 16:20:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d

Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



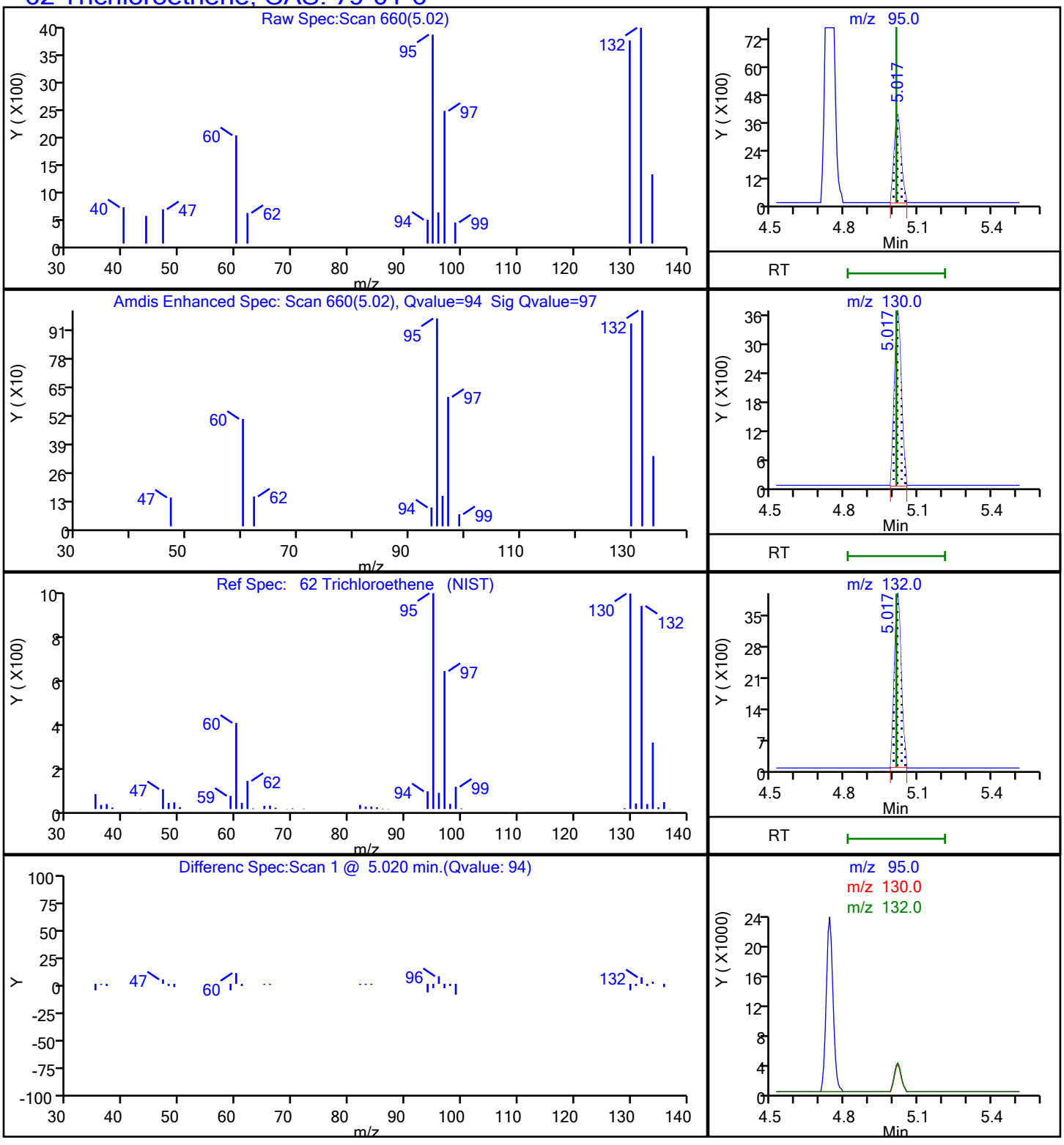
Report Date: 28-Oct-2024 16:20:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8348.d

Injection Date:	28-Oct-2024 16:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-7	Lab Sample ID:	480-224872-7		
Client ID:	EW-3-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-3-102324-DUP | Lab Sample ID: 480-224872-8

Matrix: Water | Lab File ID: D8349.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 16:22

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21	U	50	21
75-15-0	Carbon disulfide	150		50	9.5
56-23-5	Carbon tetrachloride	1700		50	14
108-90-7	Chlorobenzene	38	U	50	38
67-66-3	Chloroform	820		50	17
75-09-2	Methylene Chloride	51		50	22
127-18-4	Tetrachloroethene	20	J	50	18
108-88-3	Toluene	26	U	50	26
79-01-6	Trichloroethene	63		50	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d
Lims ID: 480-224872-A-8
Client ID: EW-3-102324-DUP
Sample Type: Client
Inject. Date: 28-Oct-2024 16:22:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224872-A-8
Misc. Info.: 480-0120860-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 15:21:52 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	98393	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	208591	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	241556	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	92	180756	28.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	98	99067	27.6	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	503483	25.0	
26 Carbon disulfide	76	2.523	2.511	0.012	100	44802	3.03	
30 Methylene Chloride	84	2.810	2.804	0.006	95	9096	1.01	
50 Chloroform	83	4.126	4.120	0.006	94	154893	16.5	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	225734	33.1	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.016	5.010	0.006	95	6349	1.26	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.412	6.412	0.006	81	2175	0.3917	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

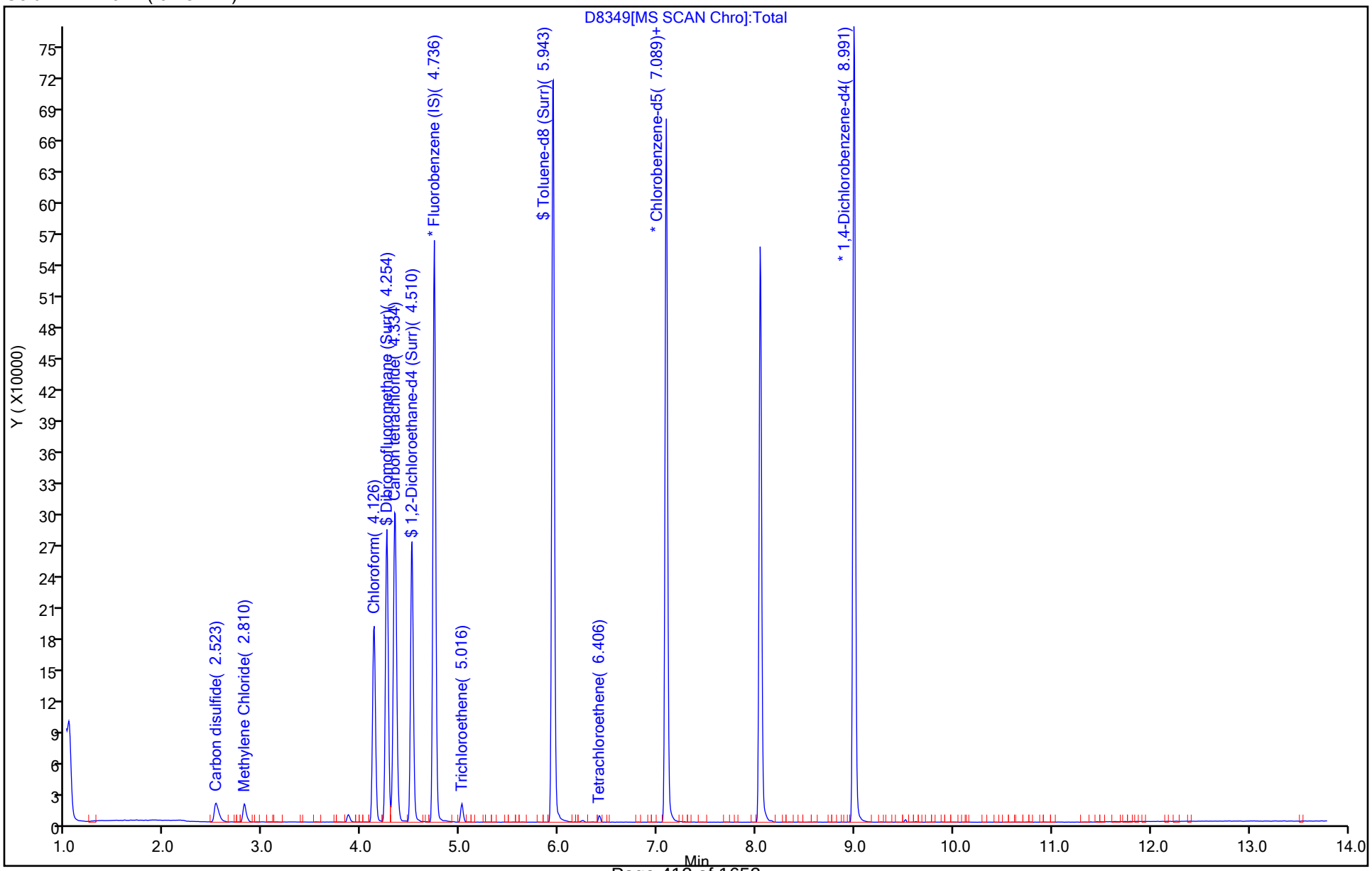
Report Date: 28-Oct-2024 17:38:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8	Worklist Smp#:	16
Client ID:	EW-3-102324-DUP				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	14
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d				
Lims ID:	480-224872-A-8				
Client ID:	EW-3-102324-DUP				
Sample Type:	Client				
Inject. Date:	28-Oct-2024 16:22:30	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Sample Info:	480-224872-A-8				
Misc. Info.:	480-0120860-016				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Oct-2024 15:21:52	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1637				

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.6	114.29
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.45
$ 5 Toluene-d8 (Surr)	25.0	25.0	100.05

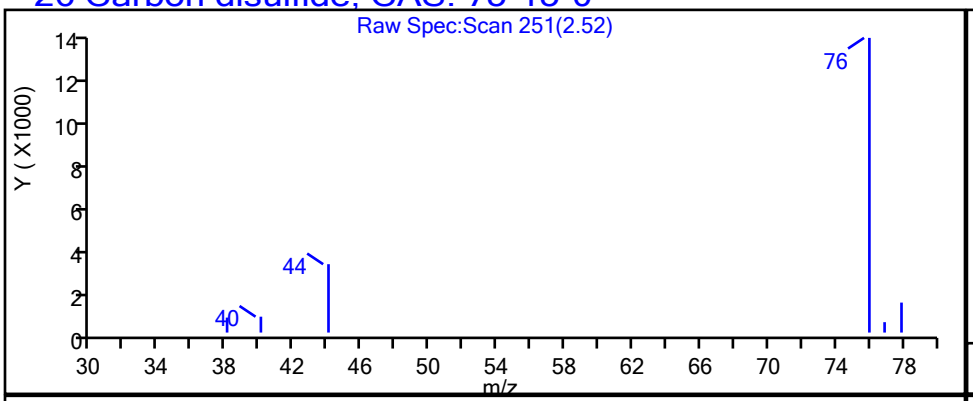
Report Date: 28-Oct-2024 17:38:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

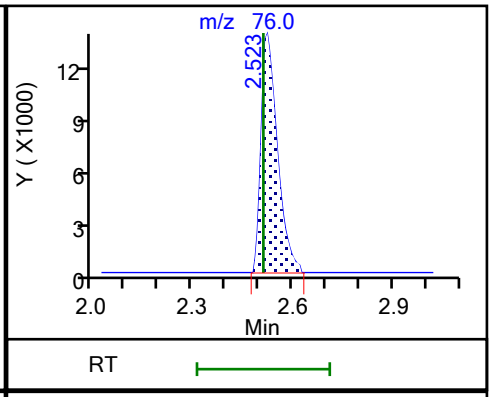
Eurofins Buffalo

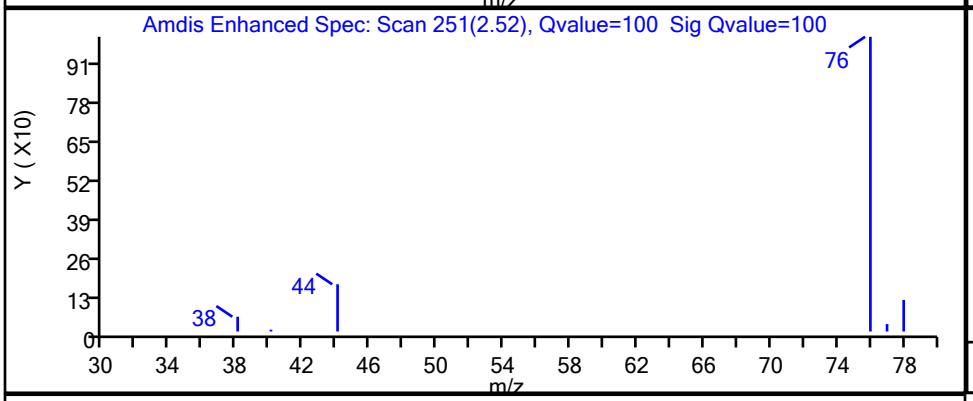
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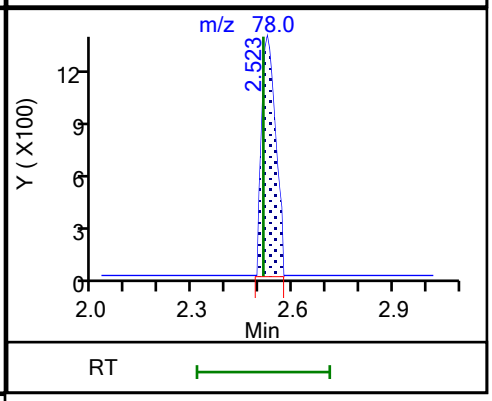
Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

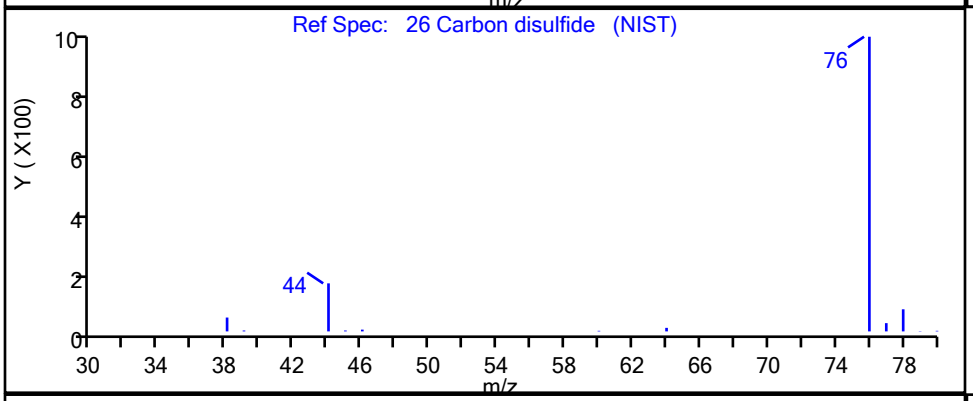
26 Carbon disulfide, CAS: 75-15-0

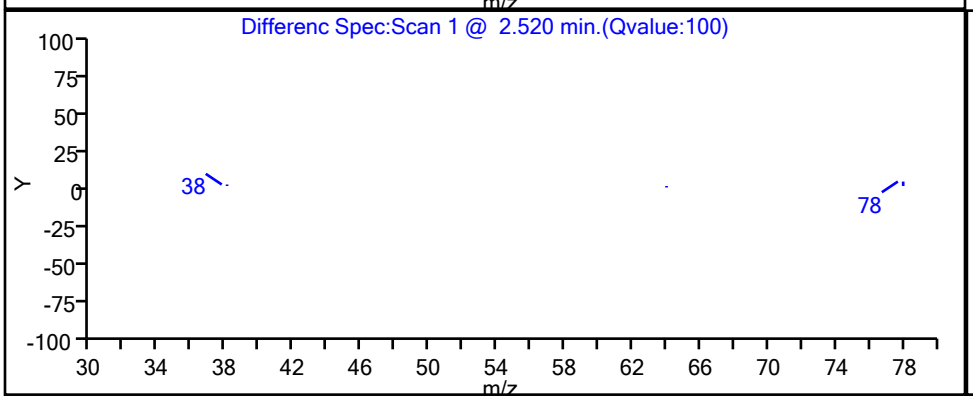


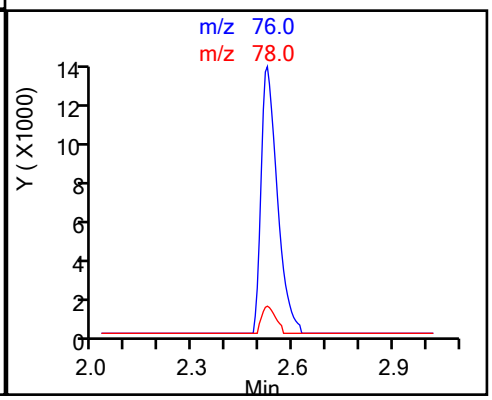












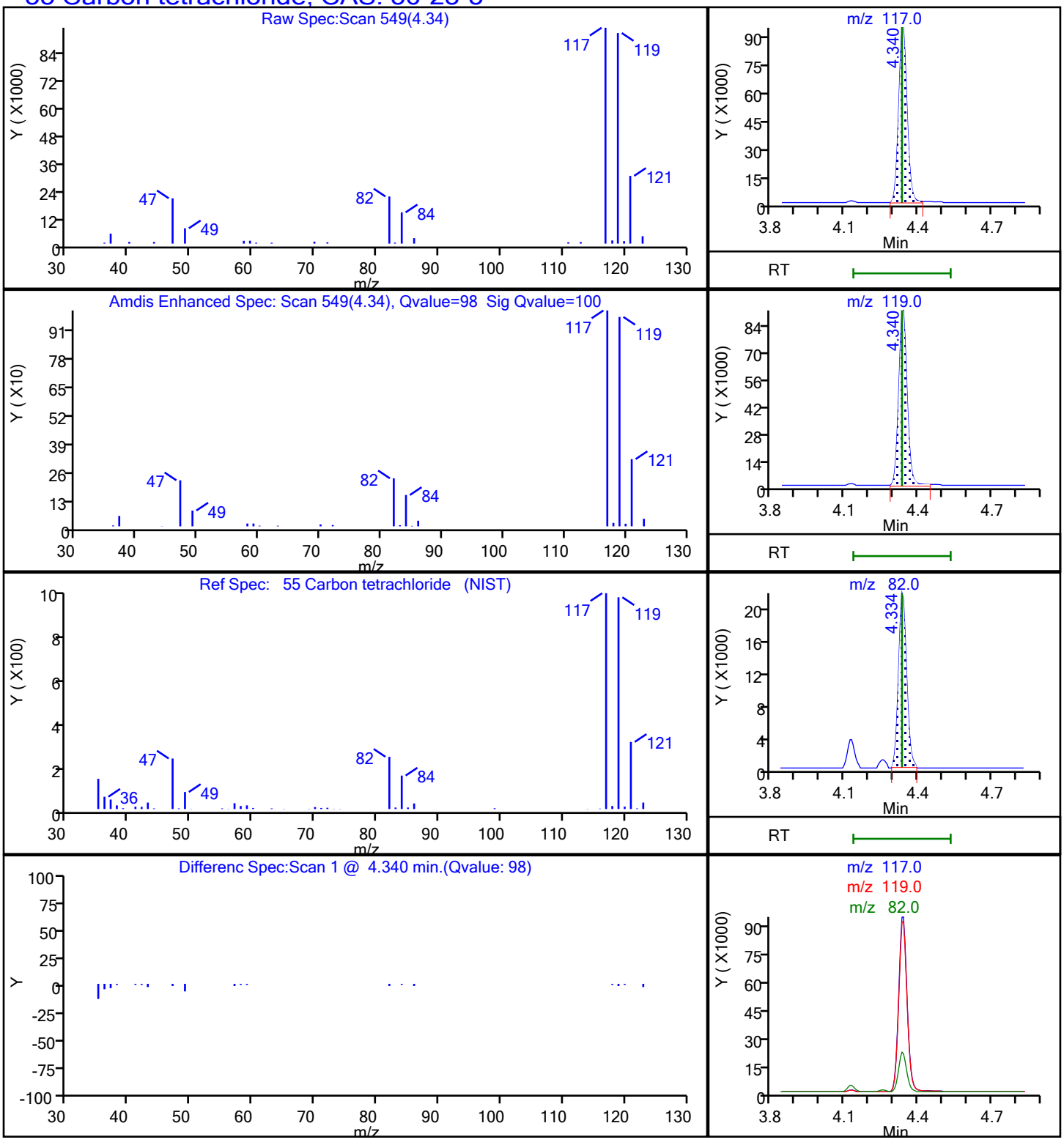
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



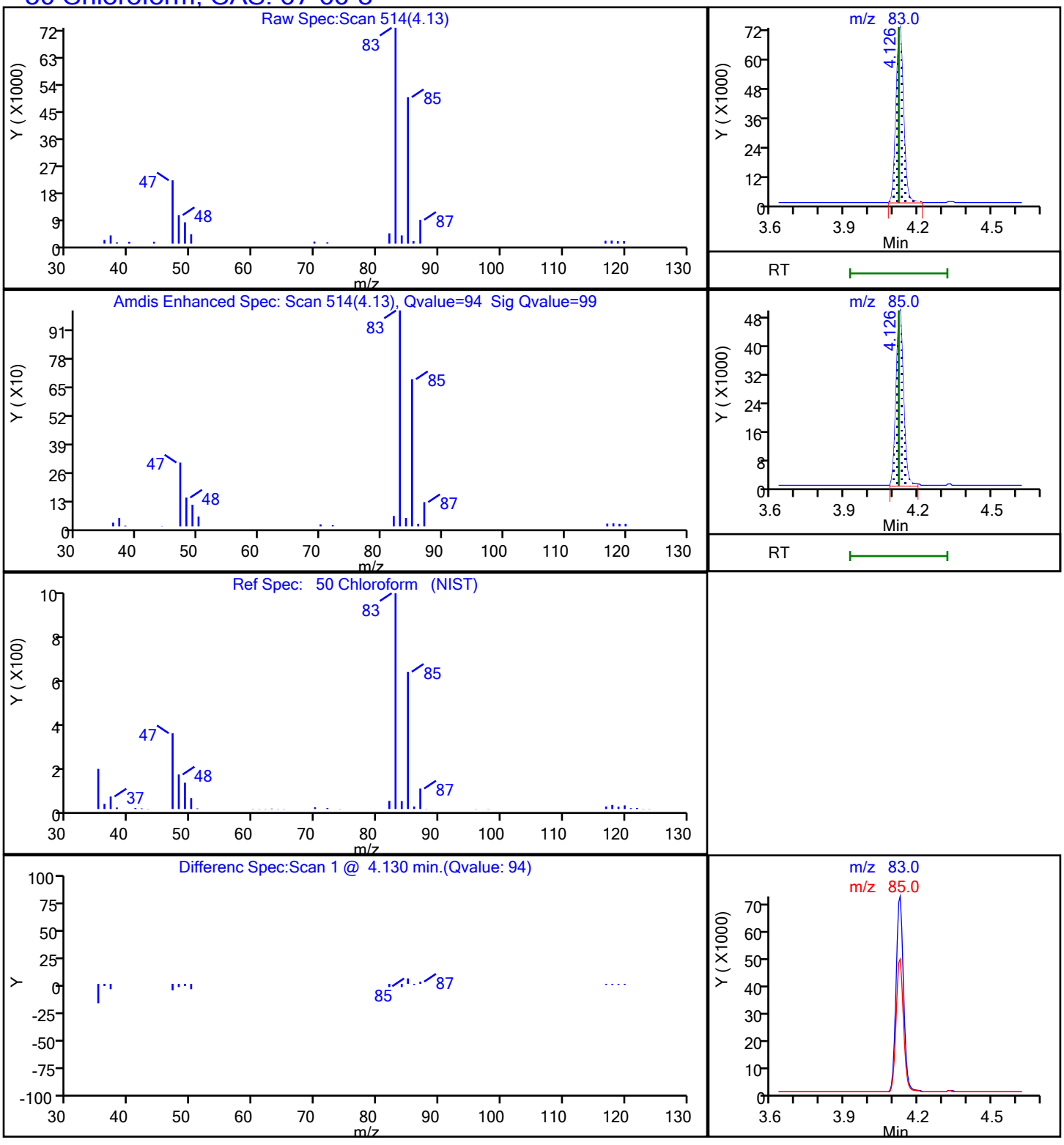
Report Date: 28-Oct-2024 17:38:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



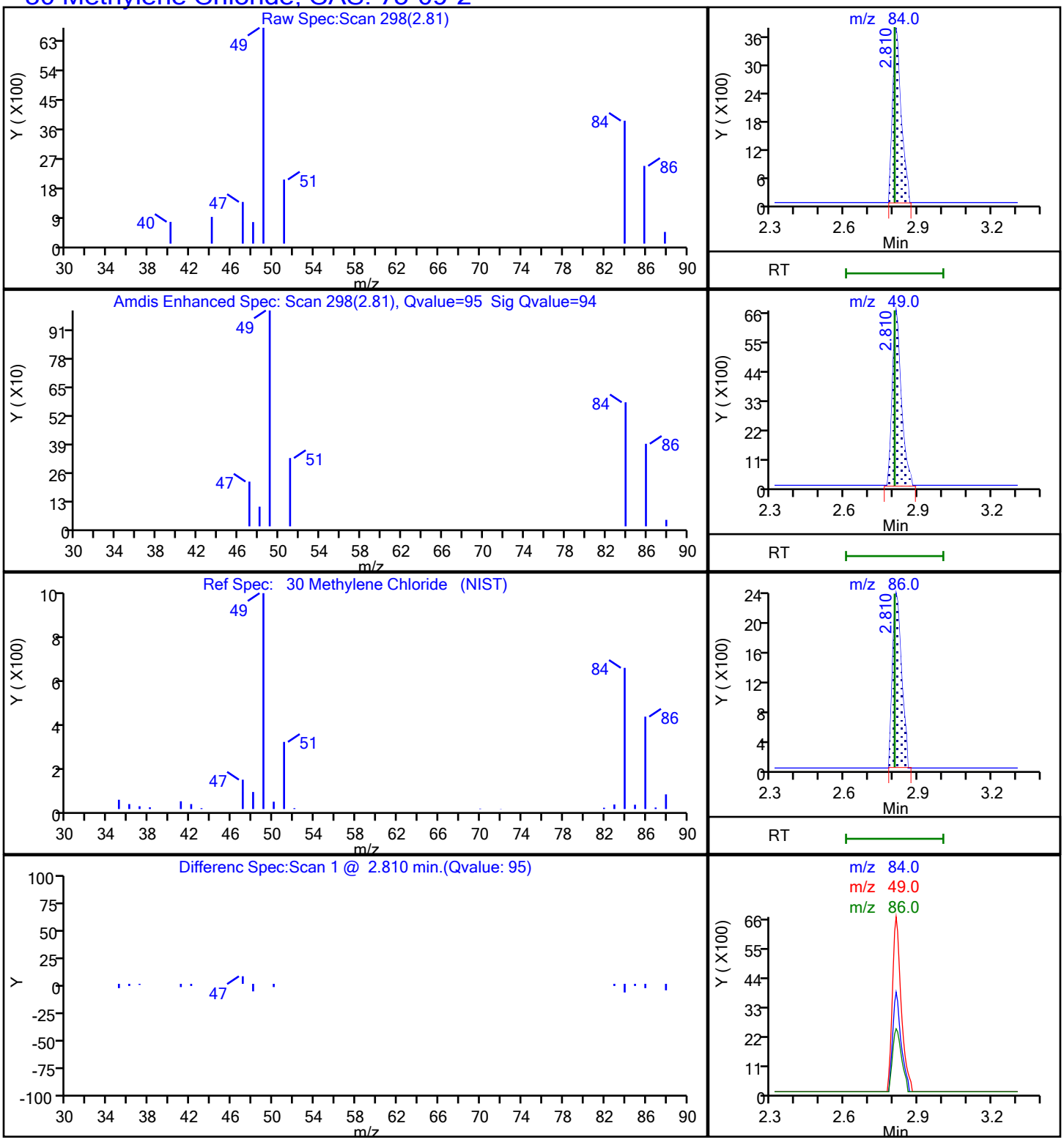
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



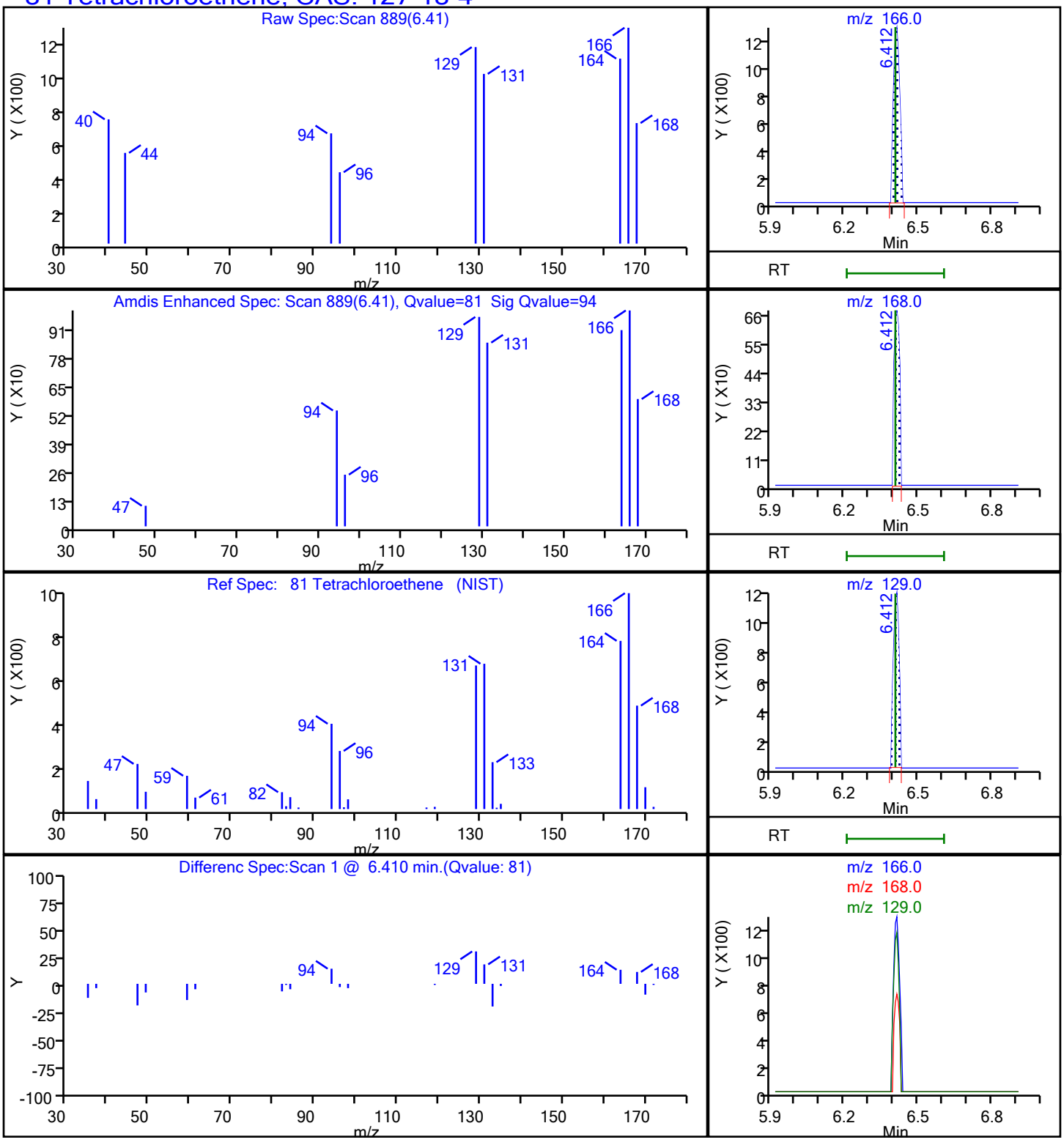
Report Date: 28-Oct-2024 17:38:05 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



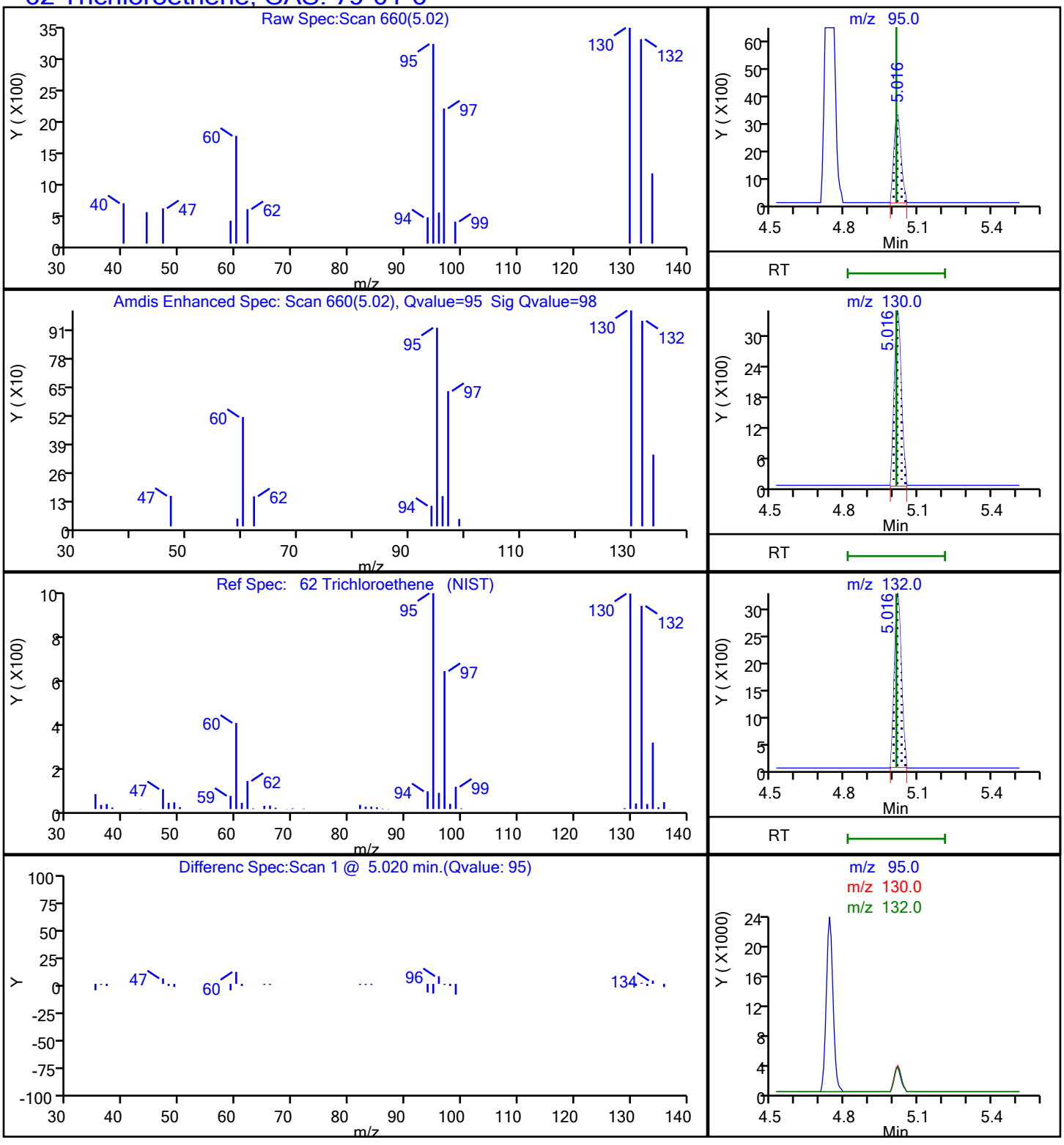
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8349.d

Injection Date:	28-Oct-2024 16:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-8	Lab Sample ID:	480-224872-8		
Client ID:	EW-3-102324-DUP				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-4-102324 | Lab Sample ID: 480-224872-9

Matrix: Water | Lab File ID: D8350.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 16:44

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	21		1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	23		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	5.6		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	2.3		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d
Lims ID: 480-224872-C-9
Client ID: EW-4-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 16:44:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-C-9
Misc. Info.: 480-0120860-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:38:16 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	100637	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	211365	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	243197	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	93	177875	27.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	98	100917	27.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	503045	24.7	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	95	221286	23.0	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	147801	21.2	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.016	5.010	0.006	94	11639	2.26	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.412	6.412	0.006	95	31542	5.61	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

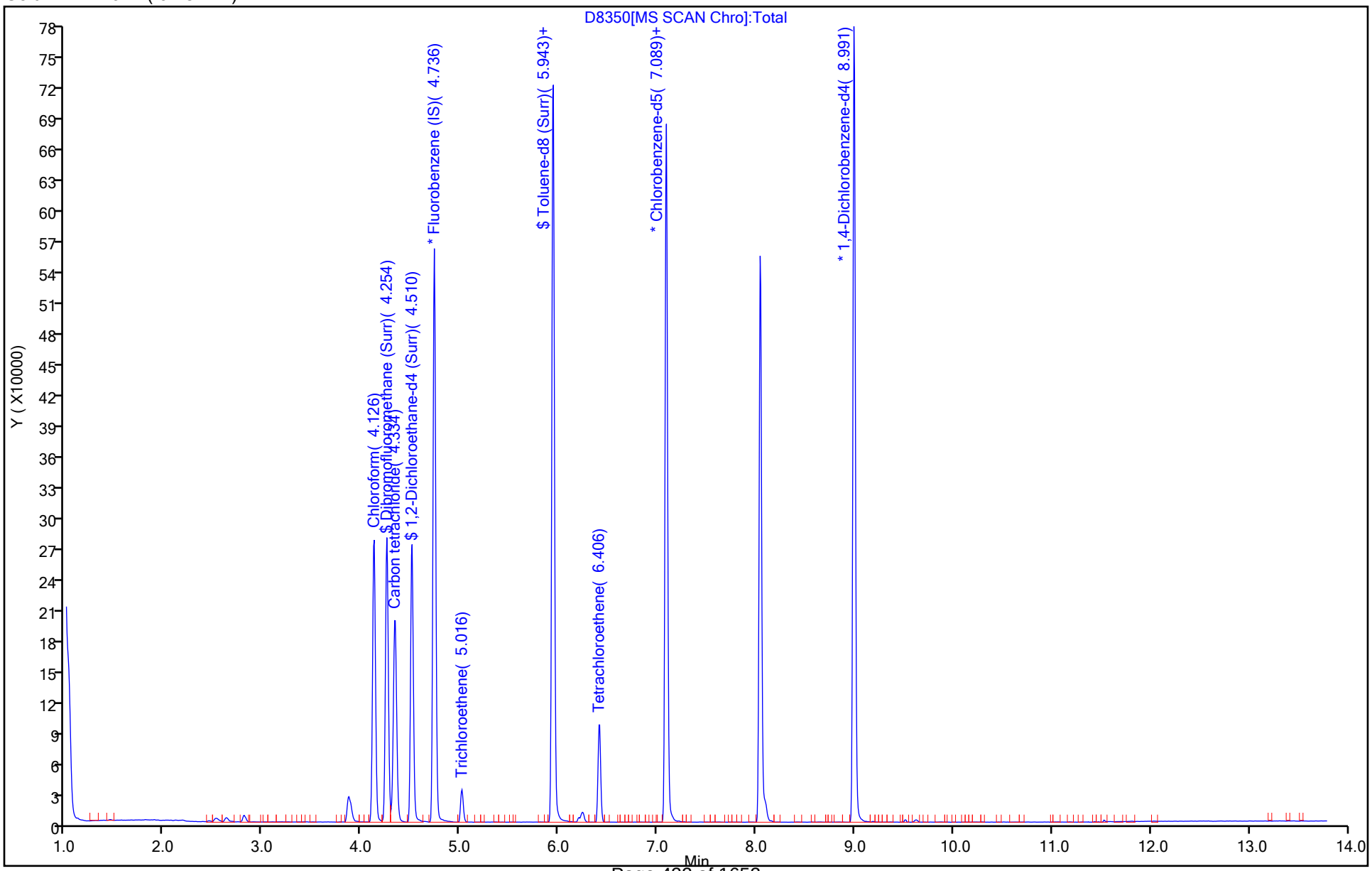
Report Date: 28-Oct-2024 17:38:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d

Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9	Worklist Smp#:	17
Client ID:	EW-4-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d
Lims ID: 480-224872-C-9
Client ID: EW-4-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 16:44:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-C-9
Misc. Info.: 480-0120860-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:38:16 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.5	109.96
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.5	110.01
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.65

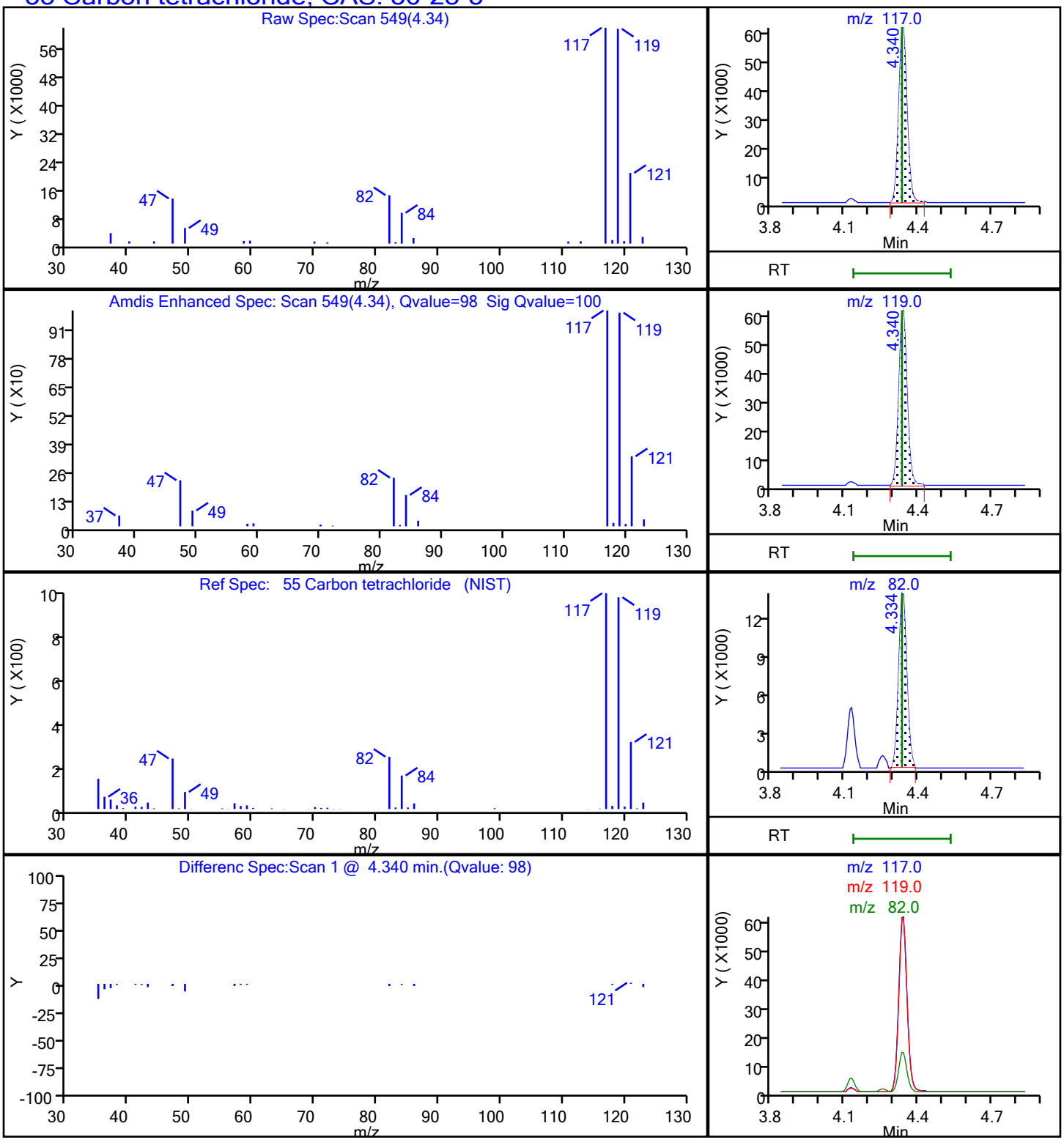
Report Date: 28-Oct-2024 17:38:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d

Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9		
Client ID:	EW-4-102324				
Operator ID:	AK	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



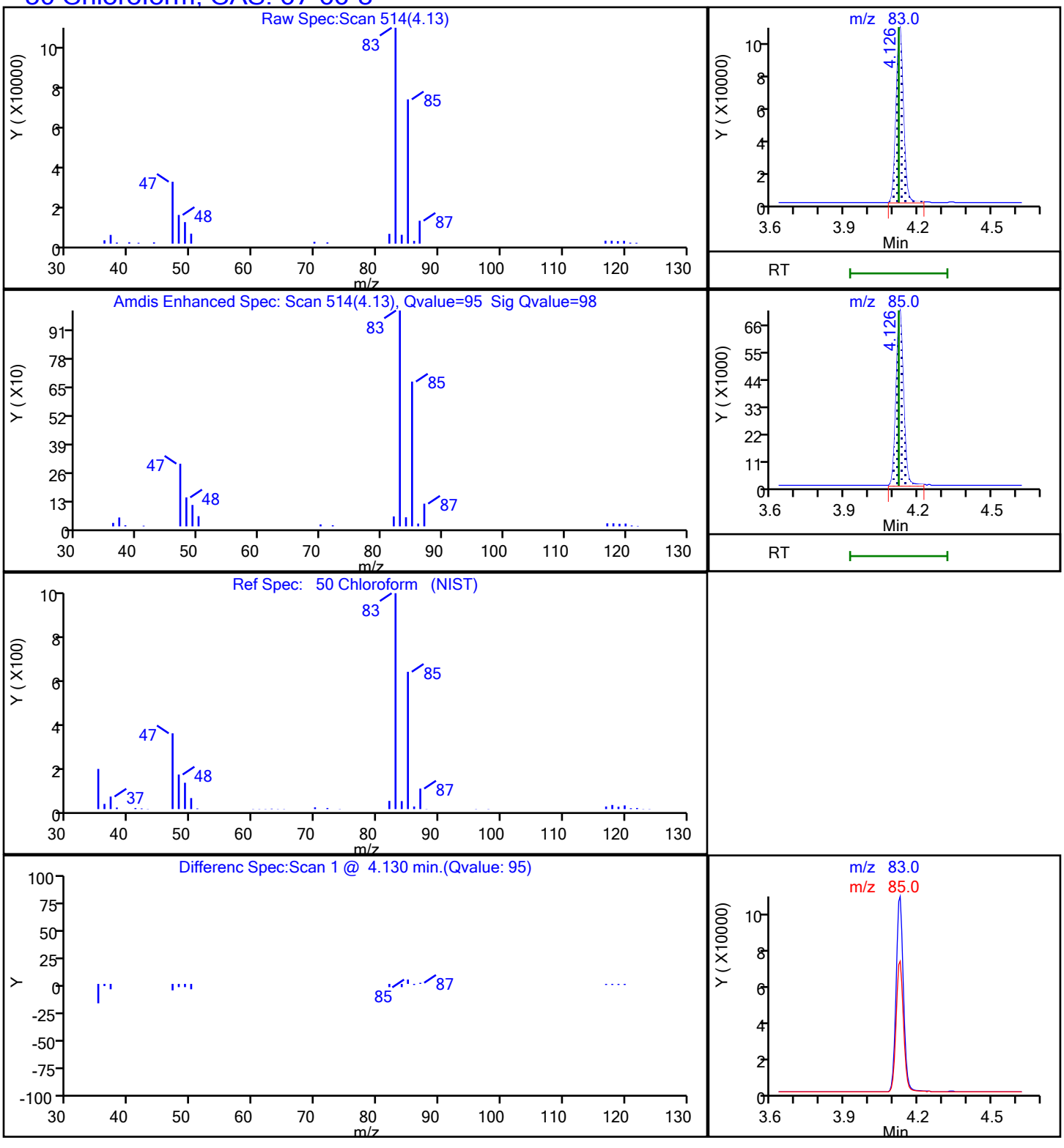
Report Date: 28-Oct-2024 17:38:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d

Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9		
Client ID:	EW-4-102324				
Operator ID:	AK	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



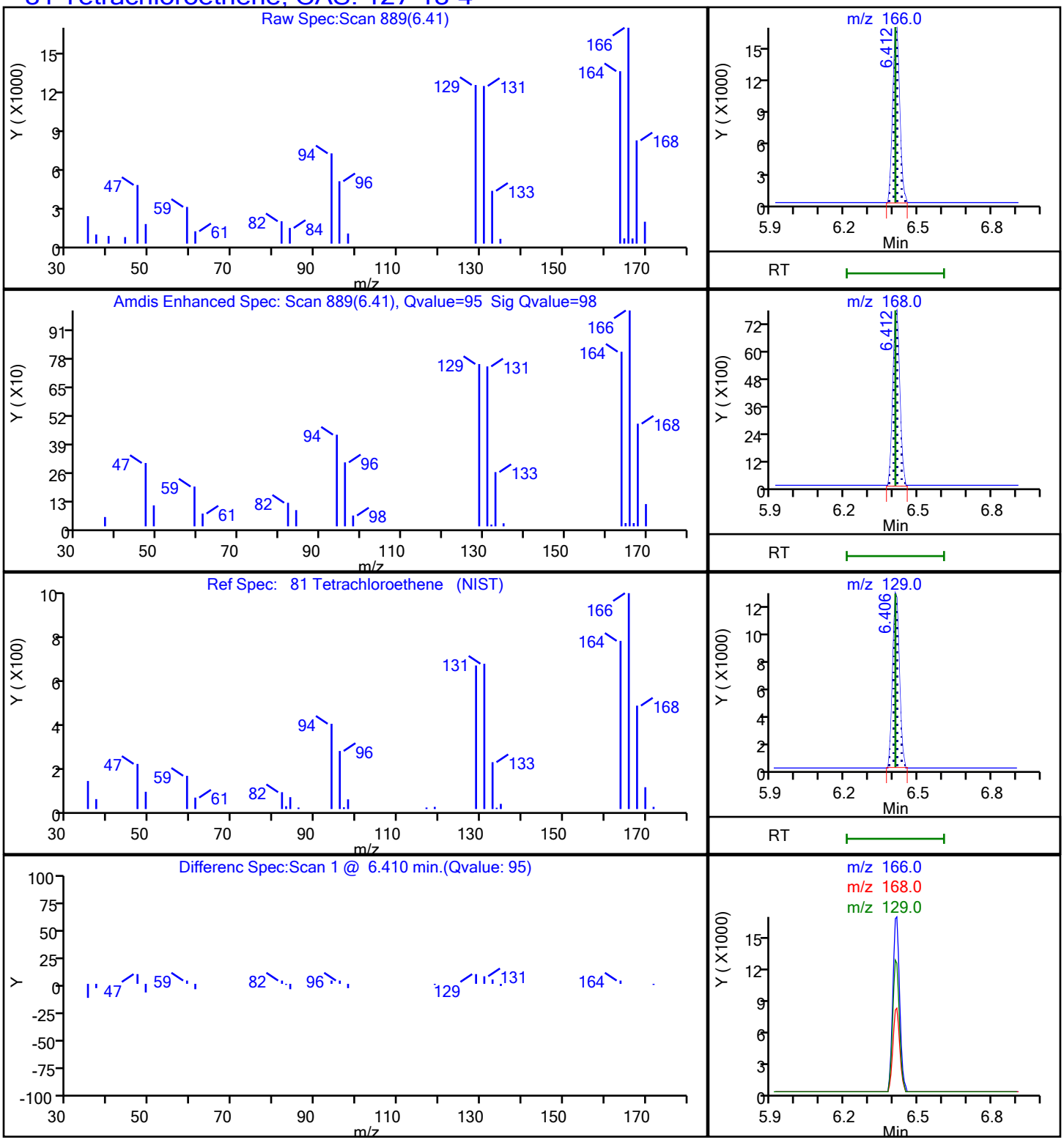
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d

Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9
Client ID:	EW-4-102324		
Operator ID:	AK	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



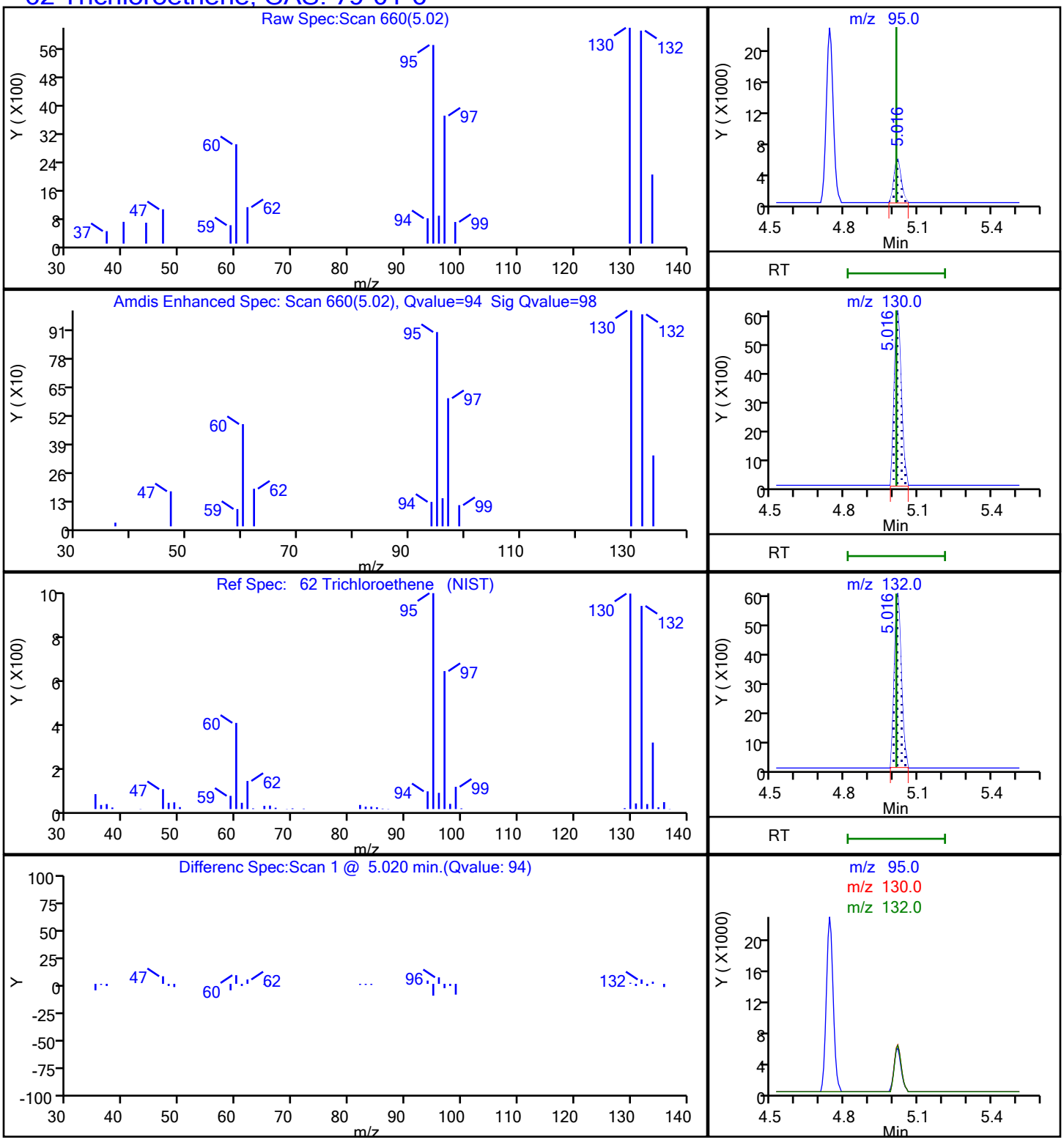
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8350.d

Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9
Client ID:	EW-4-102324		
Operator ID:	AK	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



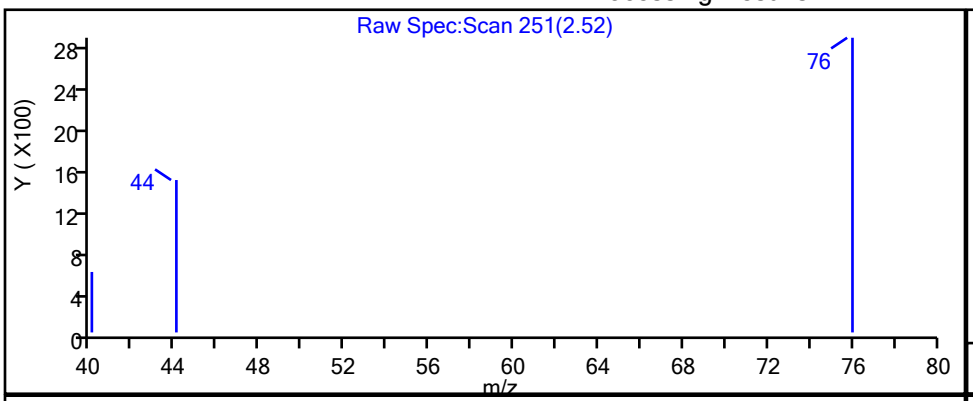
User Disabled Compound Report

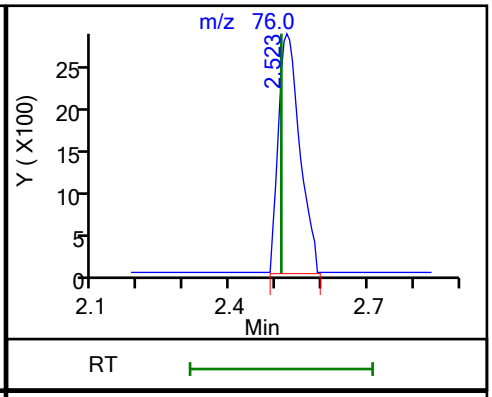
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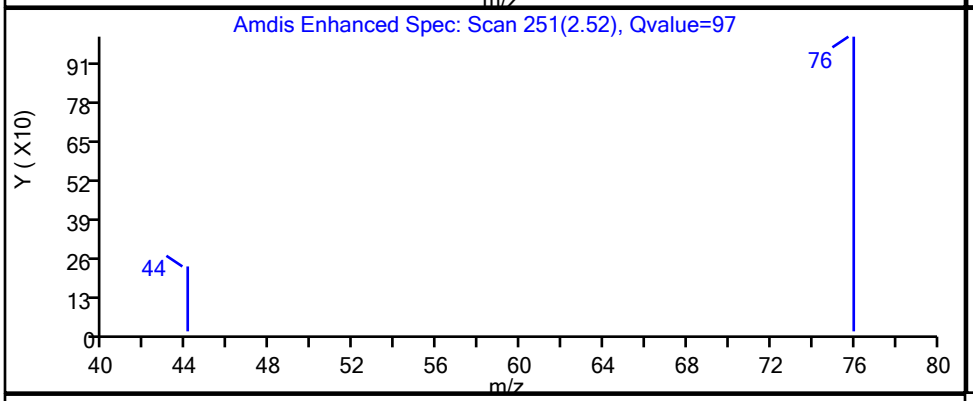
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Injection Date:	28-Oct-2024 16:44:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-C-9	Lab Sample ID:	480-224872-9		
Client ID:	EW-4-102324				
Operator ID:	AK	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

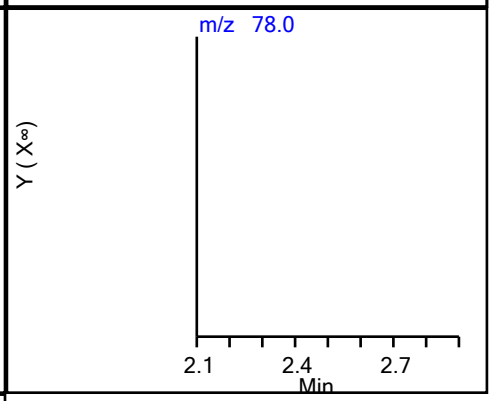
26 Carbon disulfide, CAS: 75-15-0

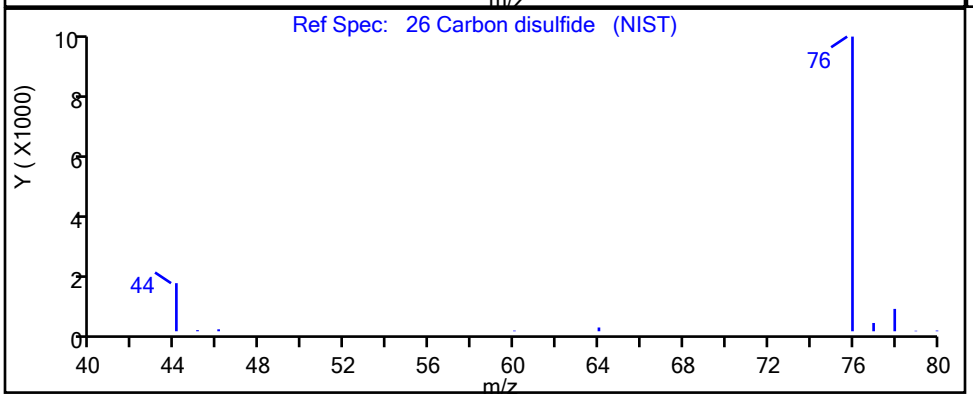
Processing Results











RT	Mass	Response	Amount
2.52	76.00	9274	0.613438
2.51	78.00	0	

Reviewer: R3QB, 28-Oct-2024 17:38:11 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-5-102324 | Lab Sample ID: 480-224872-10

Matrix: Water | Lab File ID: D8351.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 17:06

Soil Aliquot Vol: | Dilution Factor: 4

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.6	U	4.0	1.6
75-15-0	Carbon disulfide	0.76	U	4.0	0.76
56-23-5	Carbon tetrachloride	290		4.0	1.1
108-90-7	Chlorobenzene	3.0	U	4.0	3.0
67-66-3	Chloroform	160		4.0	1.4
75-09-2	Methylene Chloride	1.8	U	4.0	1.8
127-18-4	Tetrachloroethene	62		4.0	1.4
108-88-3	Toluene	2.0	U	4.0	2.0
79-01-6	Trichloroethene	81		4.0	1.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	118		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d
Lims ID: 480-224872-A-10
Client ID: EW-5-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:06:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 480-224872-A-10
Misc. Info.: 480-0120860-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:38:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	94707	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	200845	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	239887	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.007	93	179155	29.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	99	98265	28.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	479749	24.8	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.127	4.120	0.007	95	356674	39.4	
55 Carbon tetrachloride	117	4.340	4.334	0.006	97	480757	73.3	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	96	97936	20.2	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.407	6.412	0.001	96	82533	15.4	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

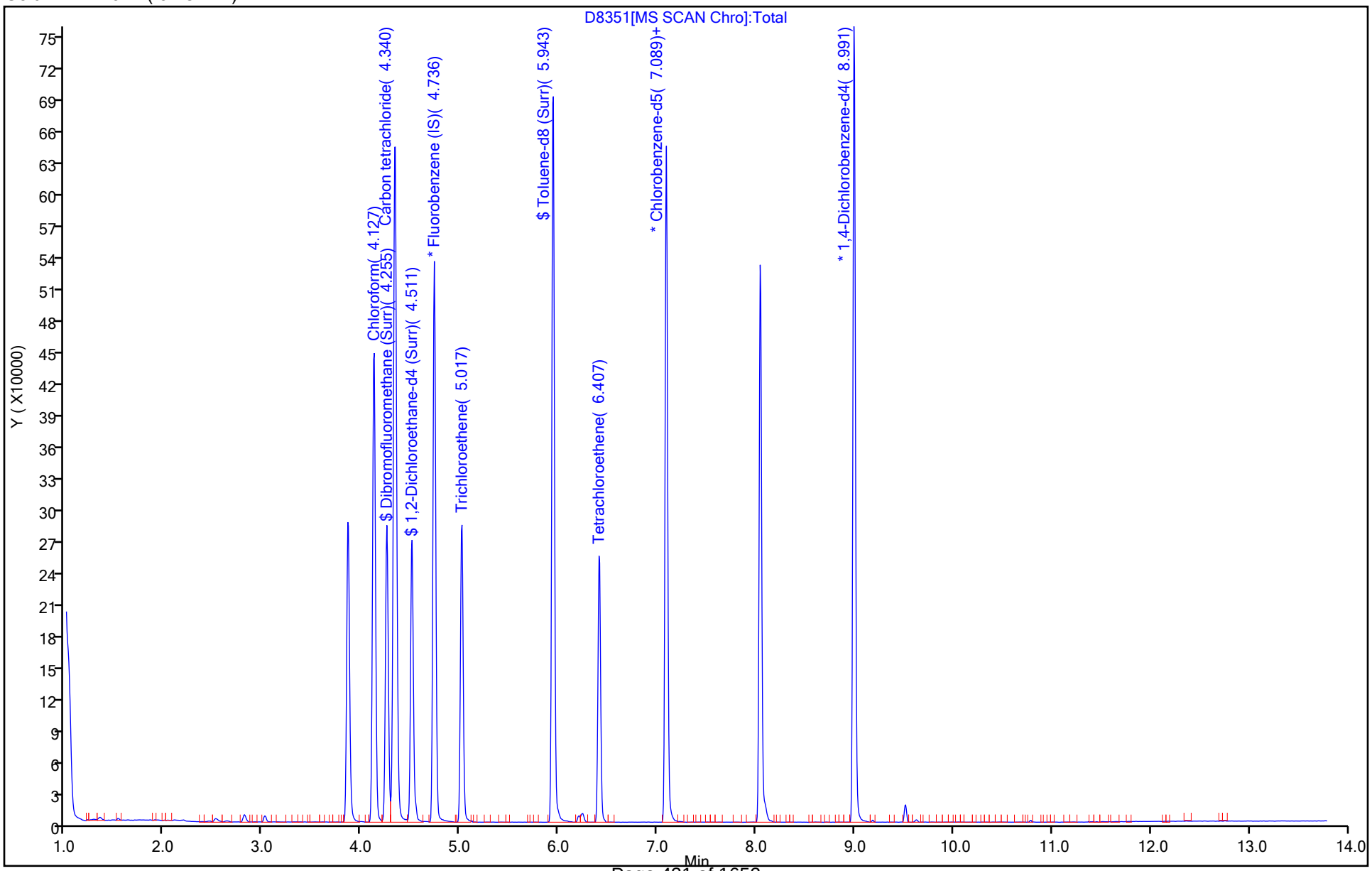
Report Date: 28-Oct-2024 17:38:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d

Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10	Worklist Smp#:	18
Client ID:	EW-5-102324				
Purge Vol:	5.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	16
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d
Lims ID: 480-224872-A-10
Client ID: EW-5-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:06:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 480-224872-A-10
Misc. Info.: 480-0120860-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:38:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:38:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.4	117.69
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	113.82
$ 5 Toluene-d8 (Surr)	25.0	24.8	99.01

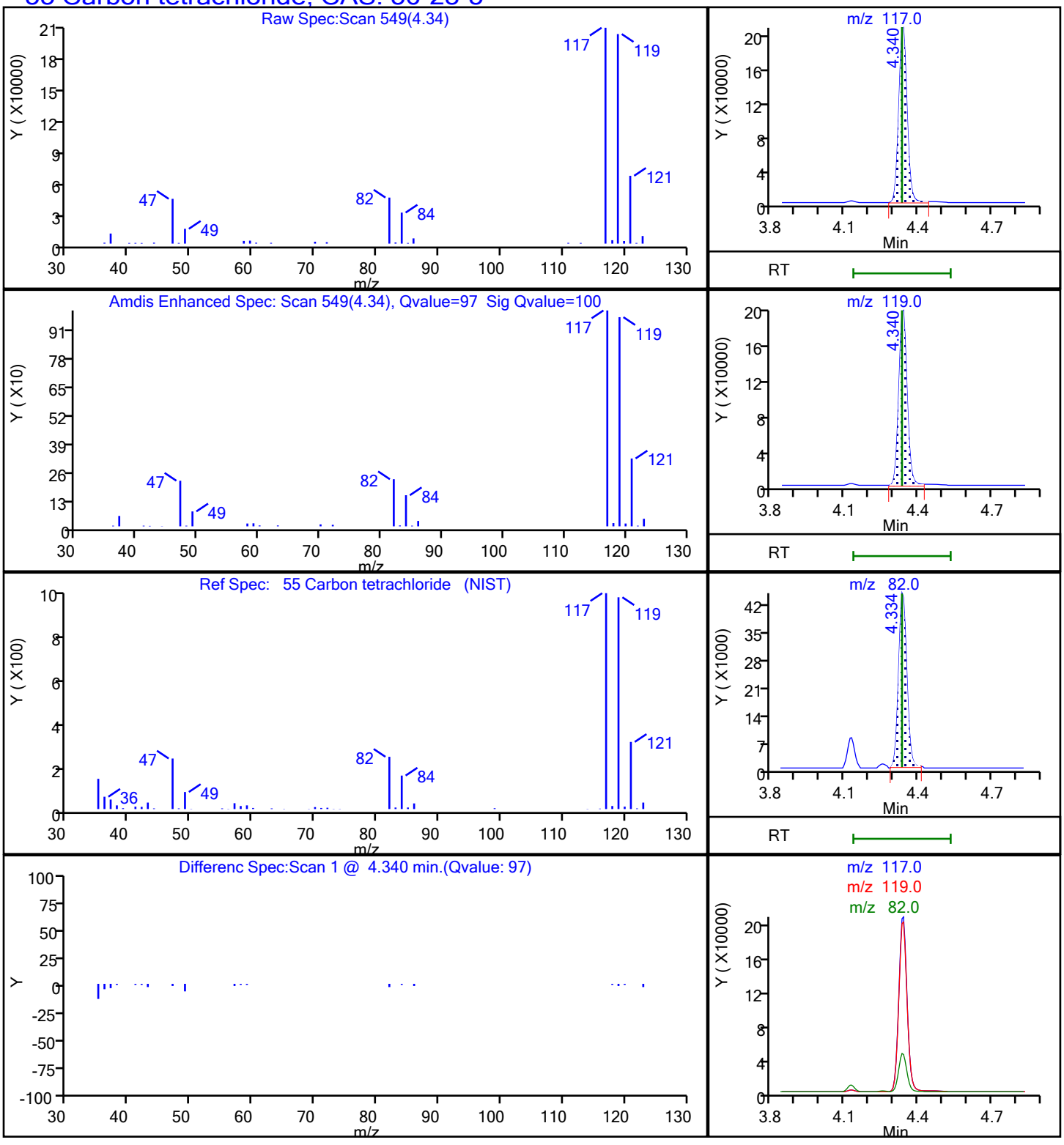
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d

Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10		
Client ID:	EW-5-102324				
Operator ID:	AK	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



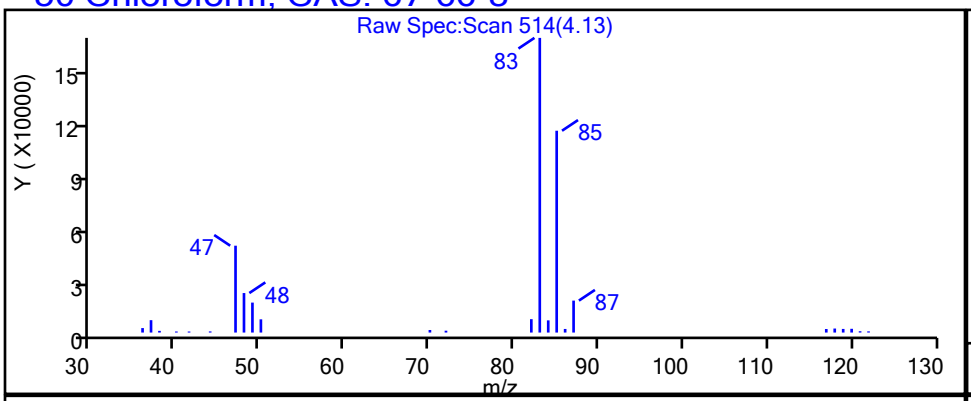
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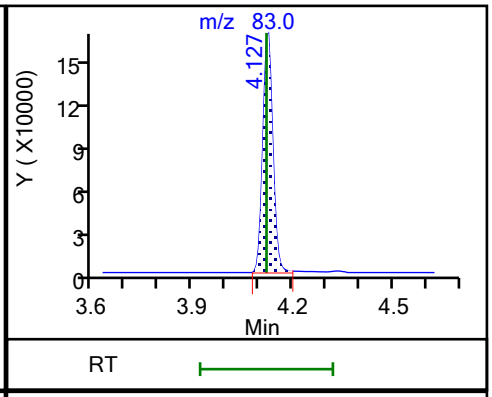
Eurofins Buffalo

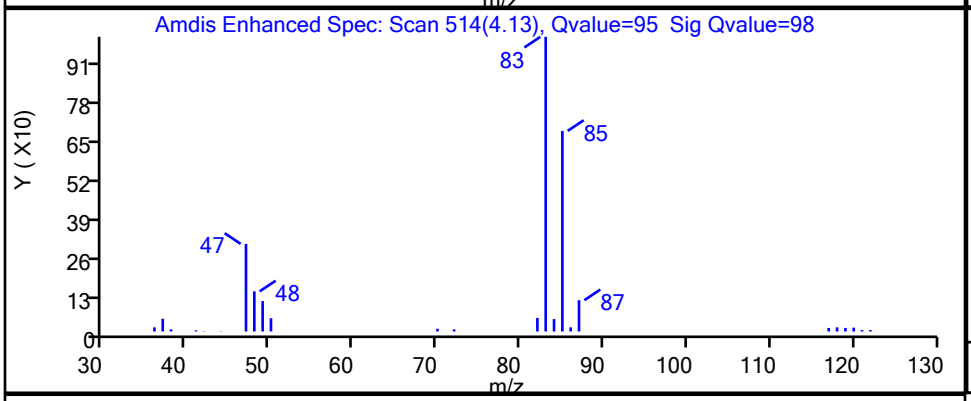
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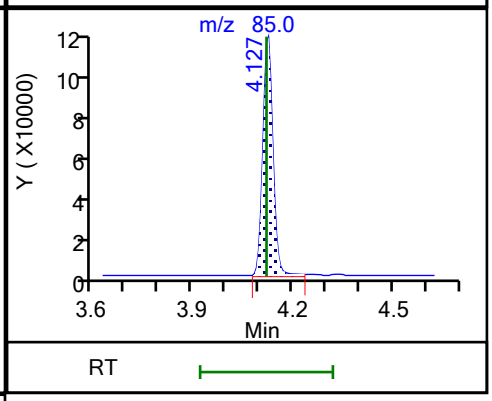
Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10		
Client ID:	EW-5-102324				
Operator ID:	AK	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

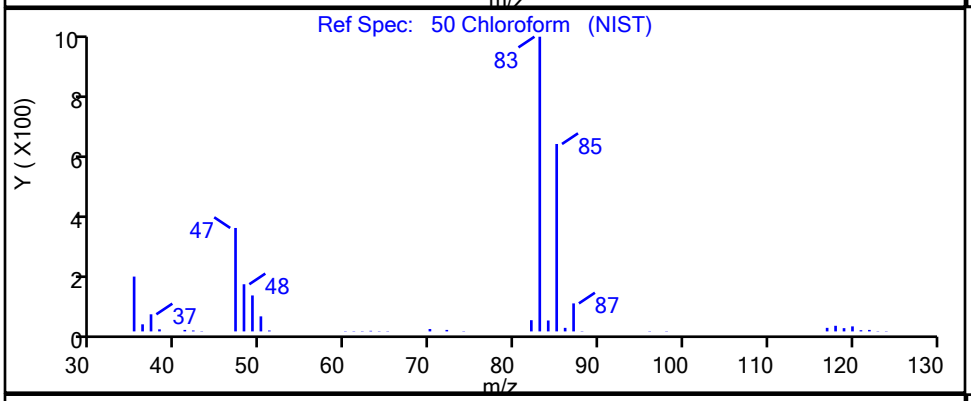
50 Chloroform, CAS: 67-66-3

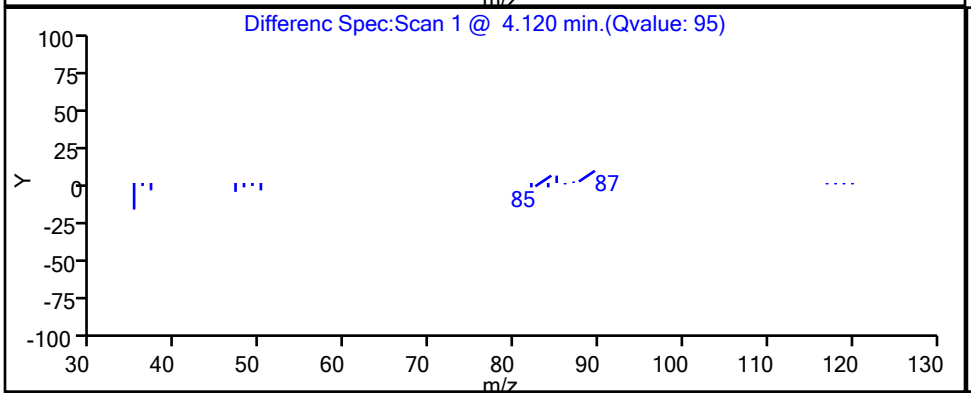


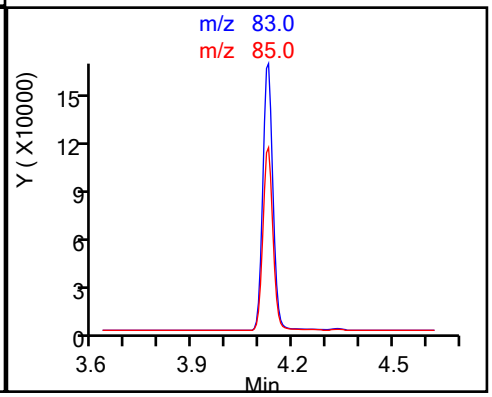












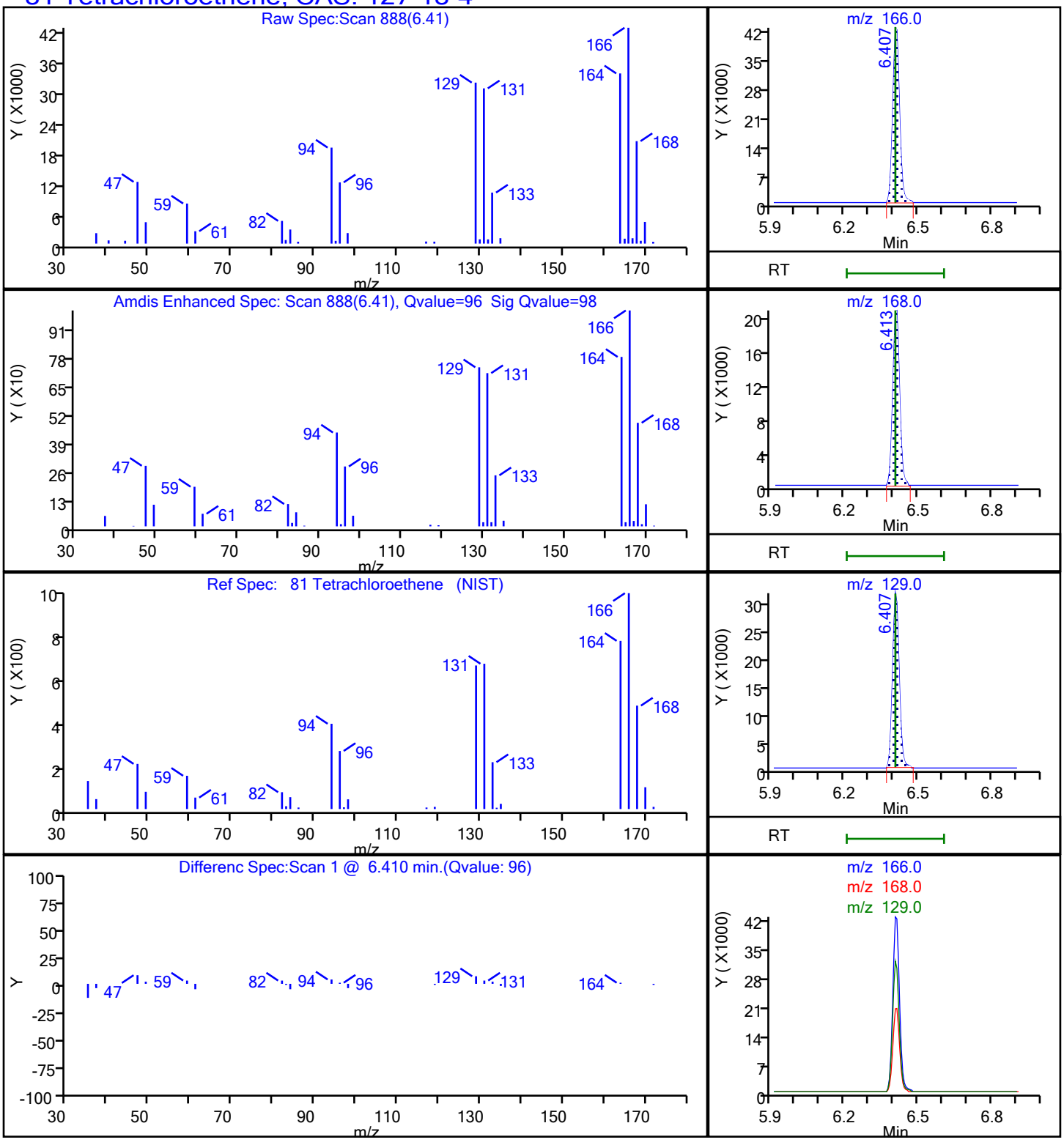
Report Date: 28-Oct-2024 17:38:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d

Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10		
Client ID:	EW-5-102324				
Operator ID:	AK	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



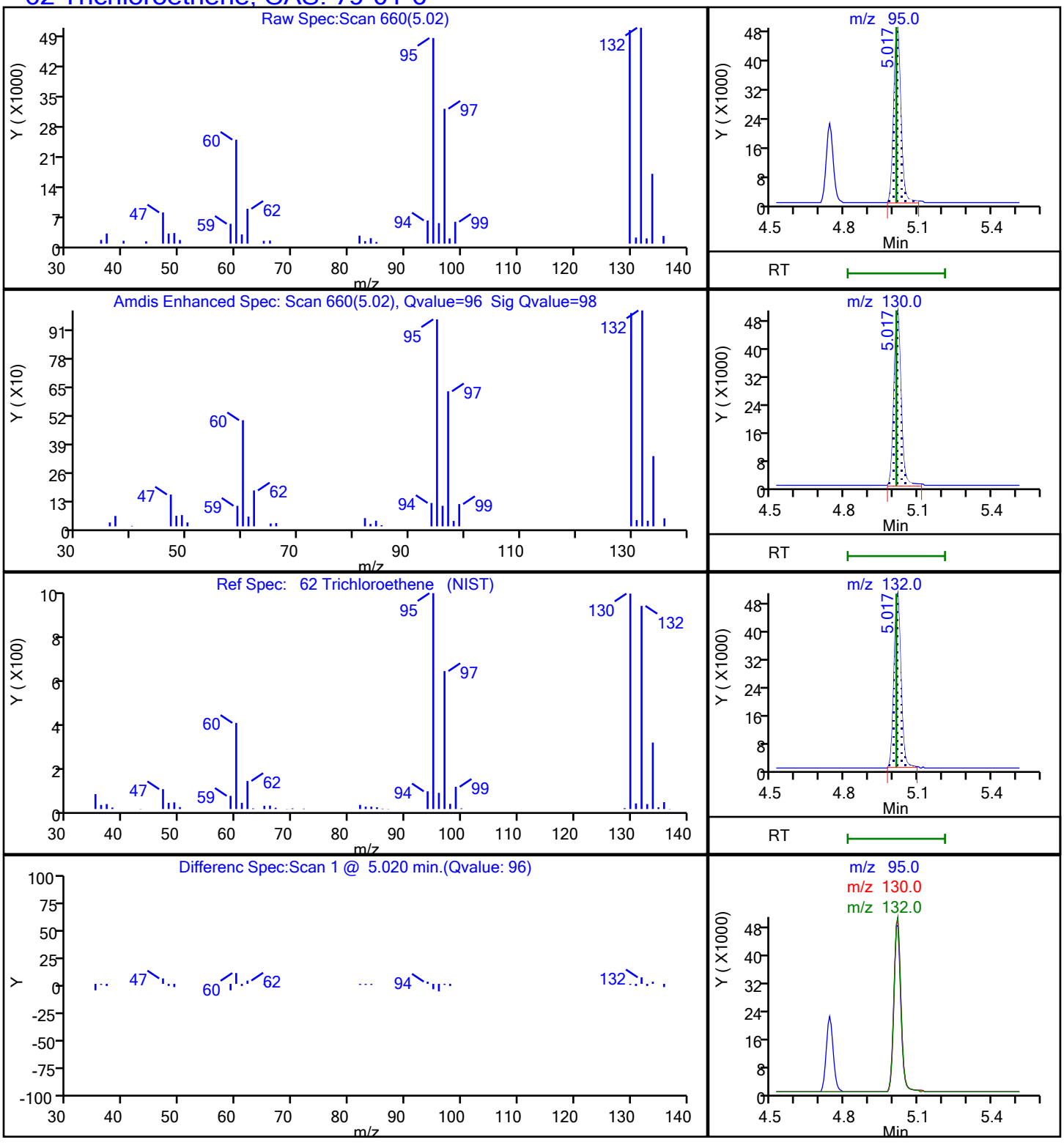
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d

Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10
Client ID:	EW-5-102324		
Operator ID:	AK	ALS Bottle#:	16 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



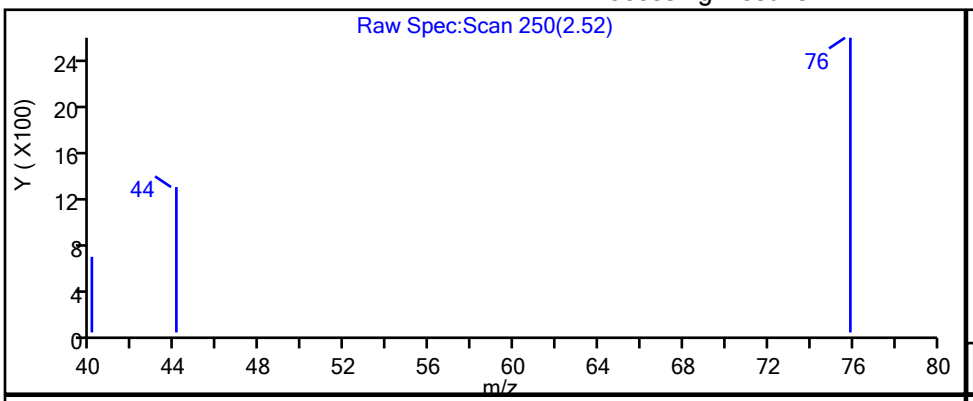
User Disabled Compound Report

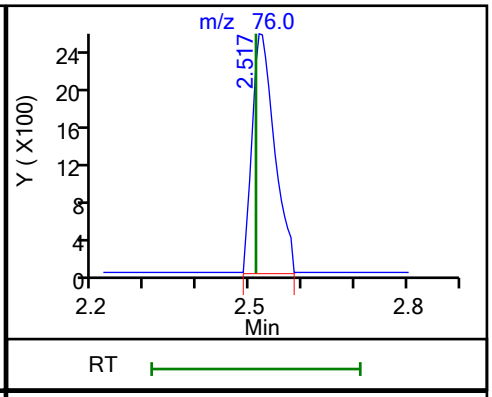
Eurofins Buffalo

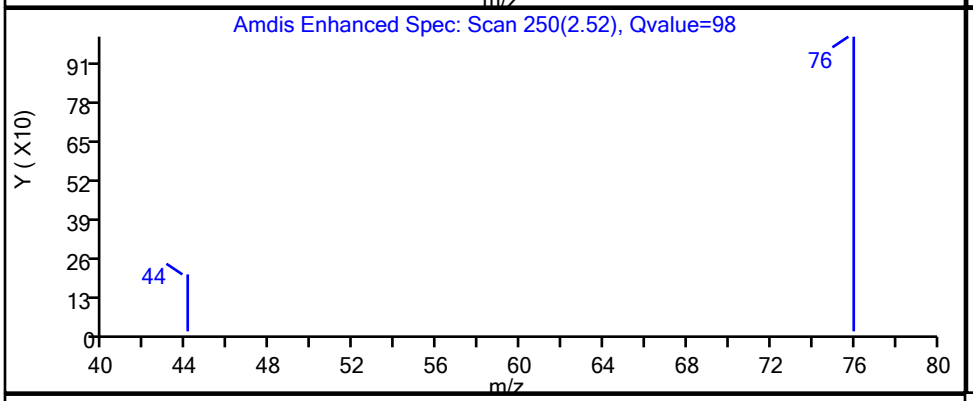
Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8351.d				
Injection Date:	28-Oct-2024 17:06:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-10	Lab Sample ID:	480-224872-10		
Client ID:	EW-5-102324				
Operator ID:	AK	ALS Bottle#:	16	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

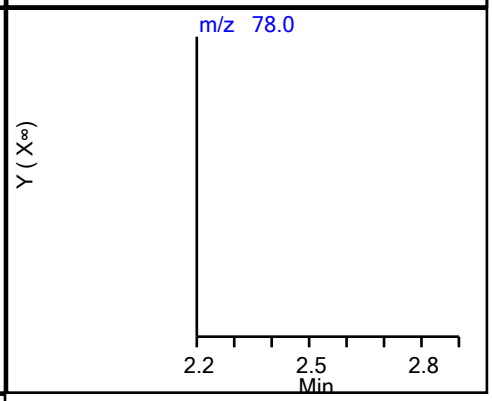
26 Carbon disulfide, CAS: 75-15-0

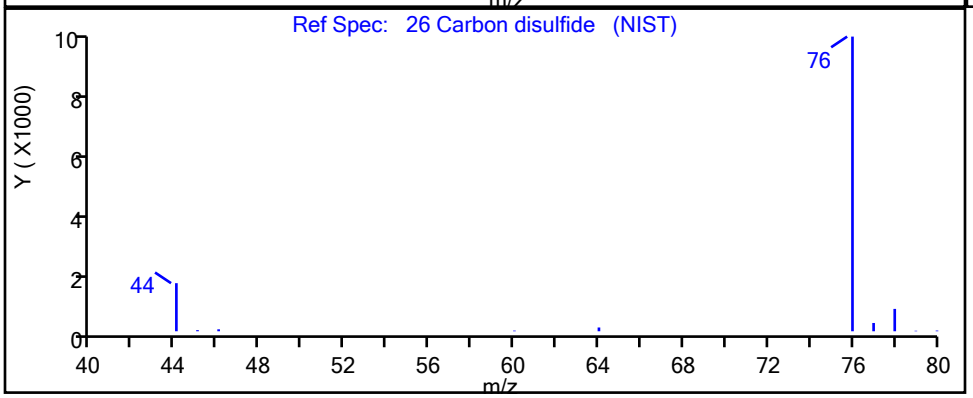
Processing Results











RT	Mass	Response	Amount
2.52	76.00	7567	0.531867
2.51	78.00	0	

Reviewer: R3QB, 28-Oct-2024 17:38:22 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-6-102324 | Lab Sample ID: 480-224872-11

Matrix: Water | Lab File ID: D8352.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 17:28

Soil Aliquot Vol: | Dilution Factor: 200

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	82	U	200	82
75-15-0	Carbon disulfide	140	J	200	38
56-23-5	Carbon tetrachloride	8500		200	54
108-90-7	Chlorobenzene	150	U	200	150
67-66-3	Chloroform	3400		200	68
75-09-2	Methylene Chloride	88	U	200	88
127-18-4	Tetrachloroethene	200		200	72
108-88-3	Toluene	100	U	200	100
79-01-6	Trichloroethene	92	U	200	92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8352.d
Lims ID: 480-224872-A-11
Client ID: EW-6-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:28:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-A-11
Misc. Info.: 480-0120860-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:51:29 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:54:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	96783	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	193447	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	226353	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.006	92	176895	28.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	99120	28.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	469932	25.2	
26 Carbon disulfide	76	2.523	2.511	0.012	99	10330	0.7105	
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	94	158965	17.2	
55 Carbon tetrachloride	117	4.340	4.334	0.006	97	286261	42.7	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	95	2058	0.4161	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.413	6.412	0.007	90	5246	1.02	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

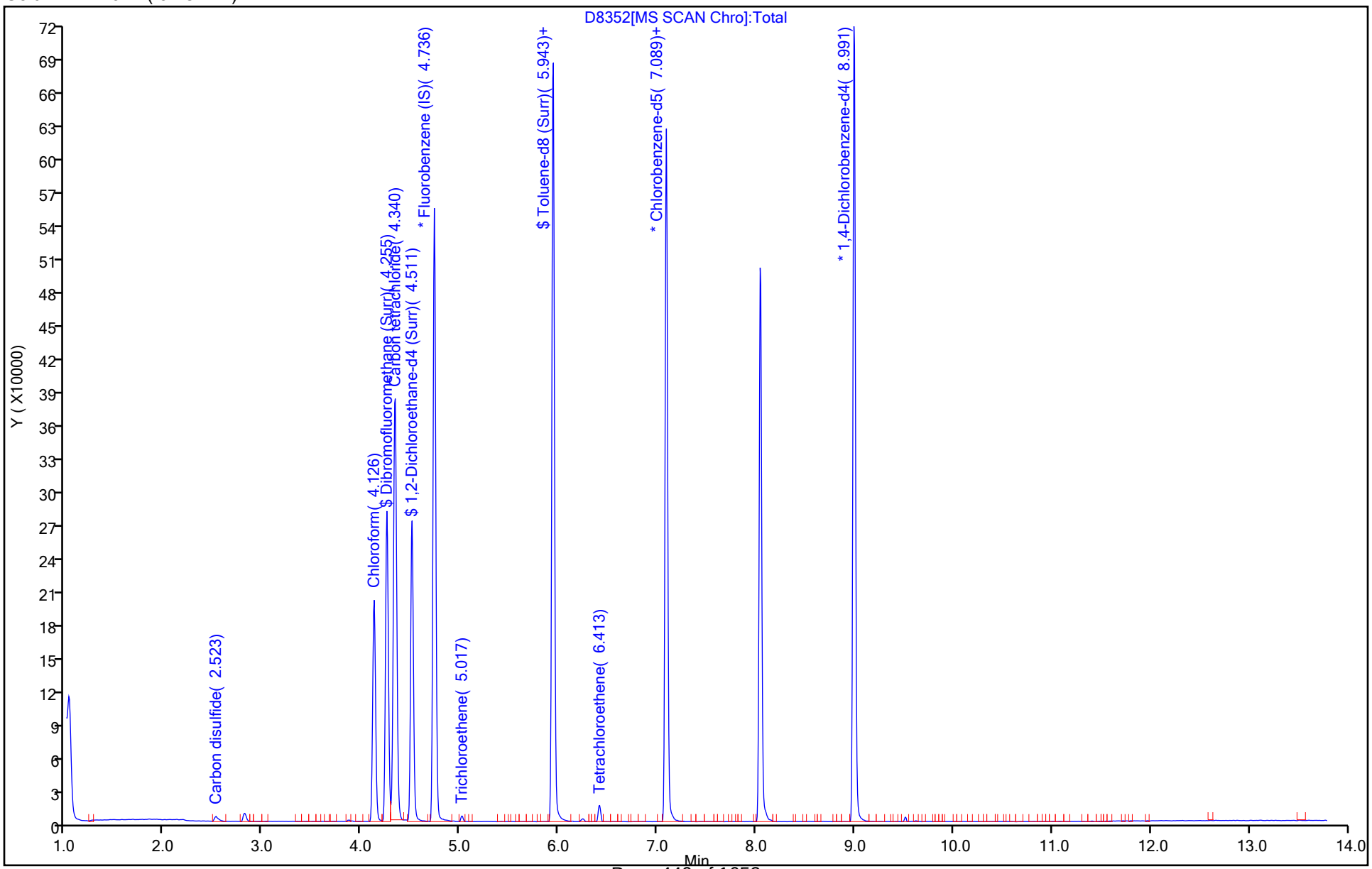
Report Date: 28-Oct-2024 17:54:46 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8352.d

Injection Date:	28-Oct-2024 17:28:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-11	Lab Sample ID:	480-224872-11	Worklist Smp#:	19
Client ID:	EW-6-102324				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	17
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8352.d
Lims ID: 480-224872-A-11
Client ID: EW-6-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:28:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-A-11
Misc. Info.: 480-0120860-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 17:51:29 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 17:54:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.4	113.71
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.1	112.35
$ 5 Toluene-d8 (Surr)	25.0	25.2	100.69

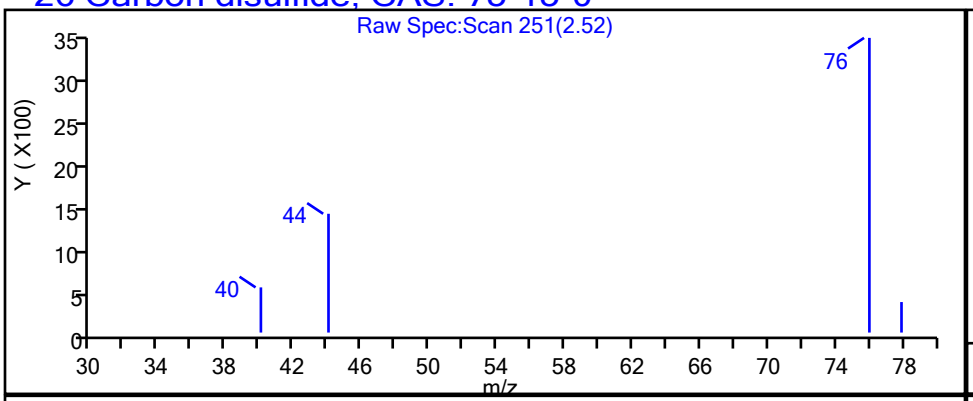
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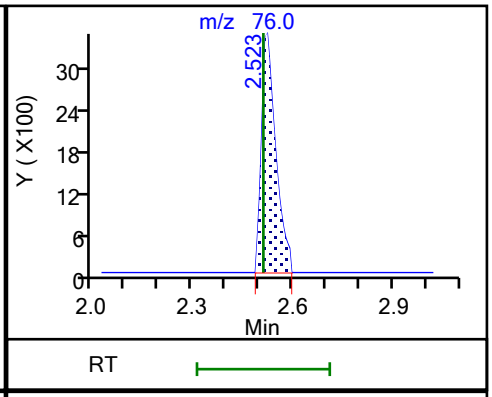
Eurofins Buffalo

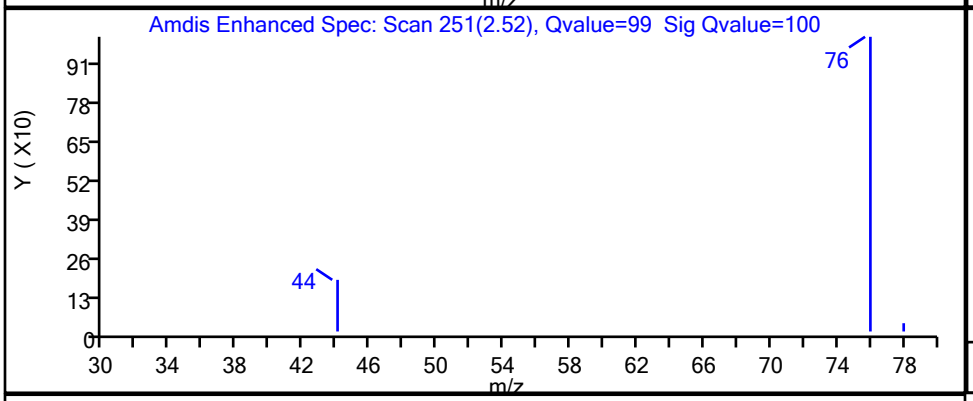
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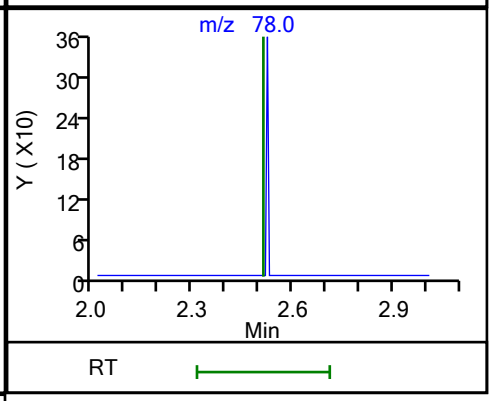
Injection Date:	28-Oct-2024 17:28:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-11	Lab Sample ID:	480-224872-11		
Client ID:	EW-6-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

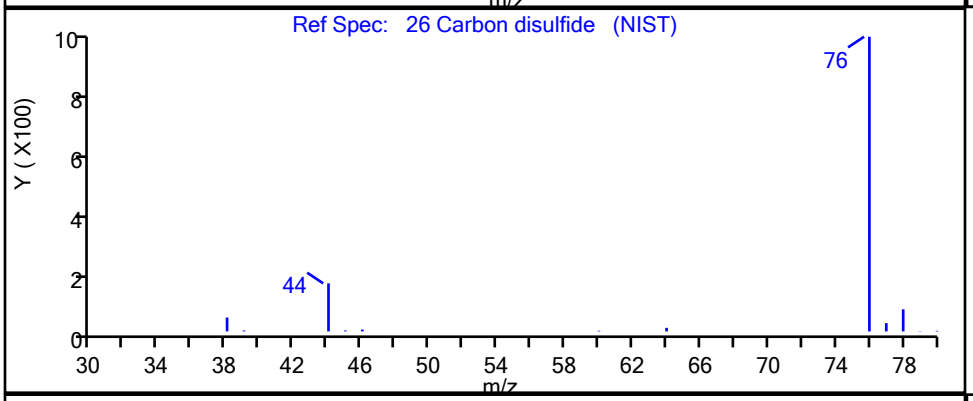
26 Carbon disulfide, CAS: 75-15-0

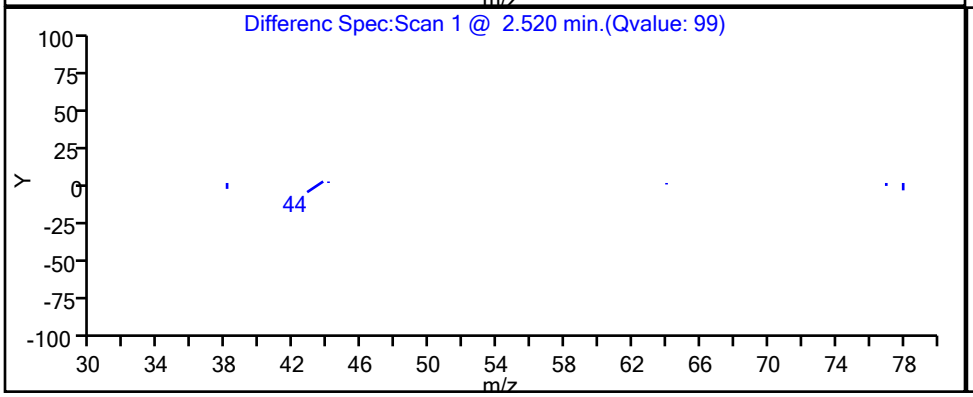


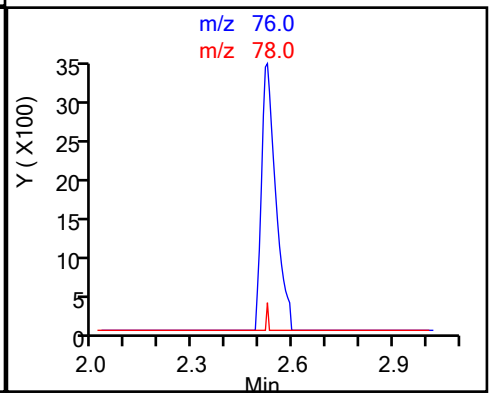












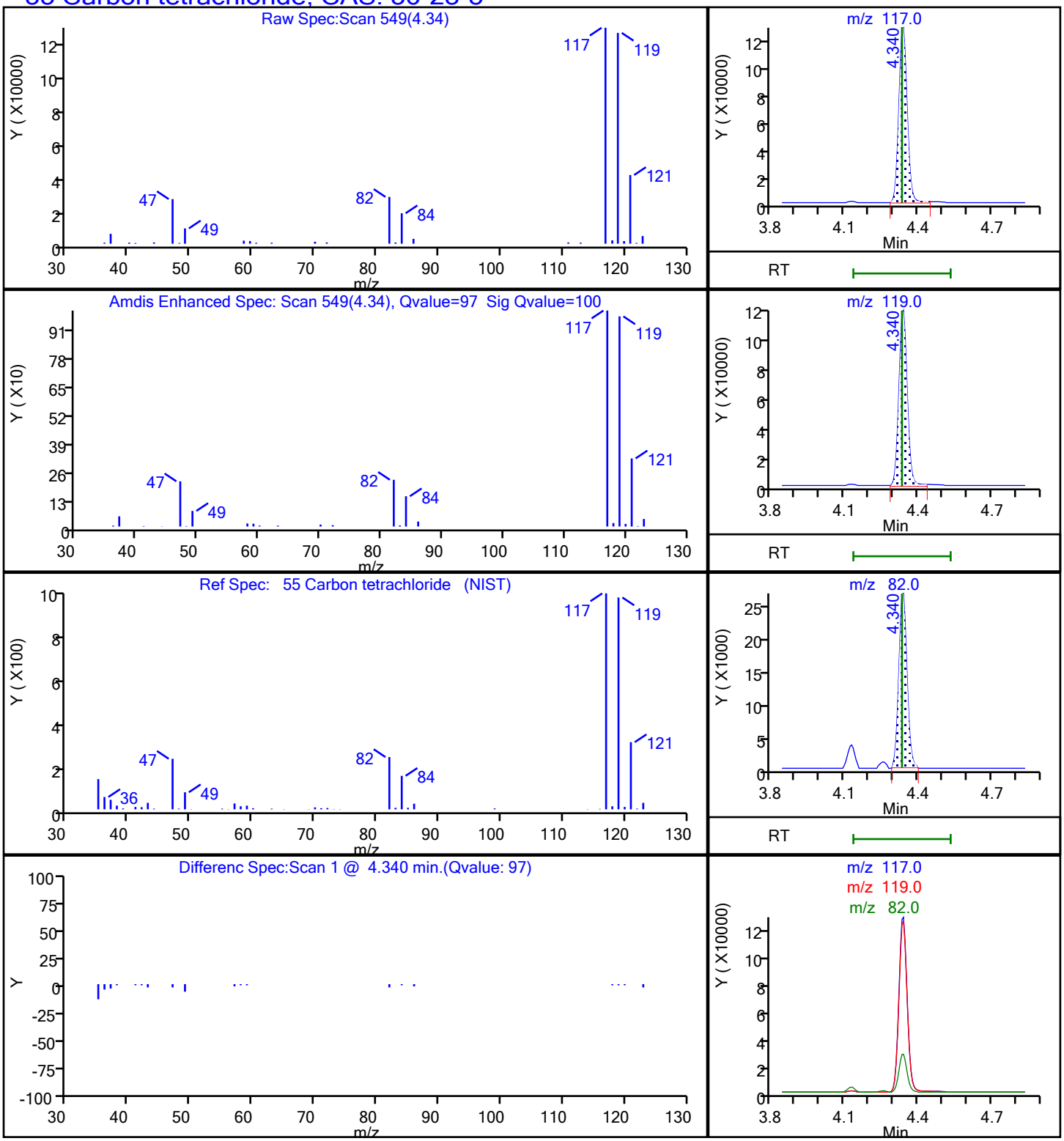
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8352.d

Injection Date:	28-Oct-2024 17:28:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-11	Lab Sample ID:	480-224872-11		
Client ID:	EW-6-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



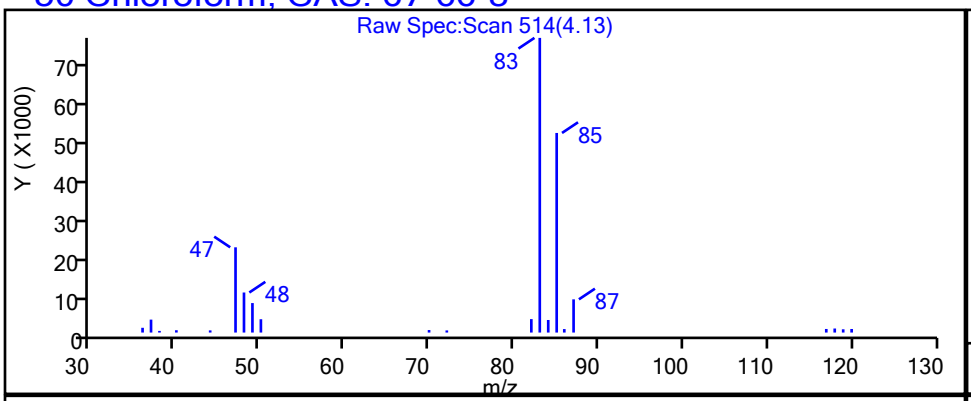
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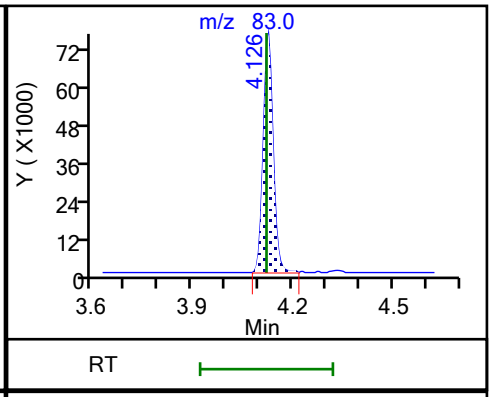
Eurofins Buffalo

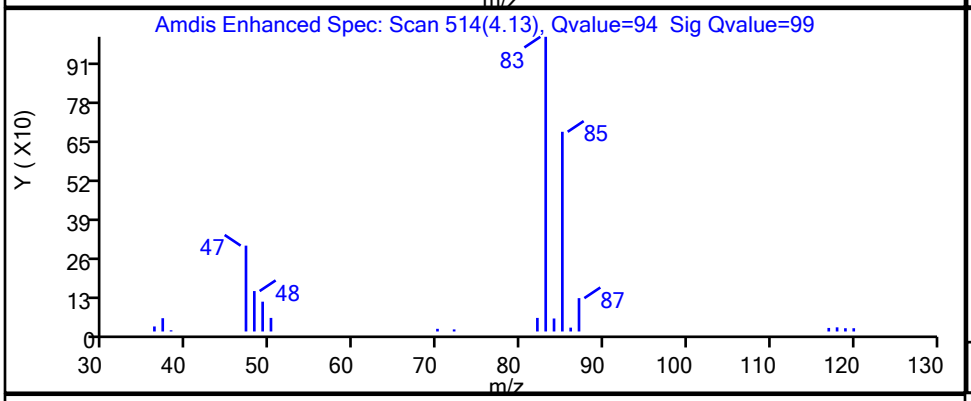
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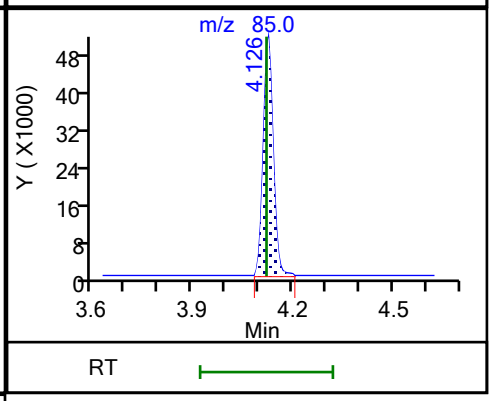
Injection Date:	28-Oct-2024 17:28:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-11	Lab Sample ID:	480-224872-11		
Client ID:	EW-6-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

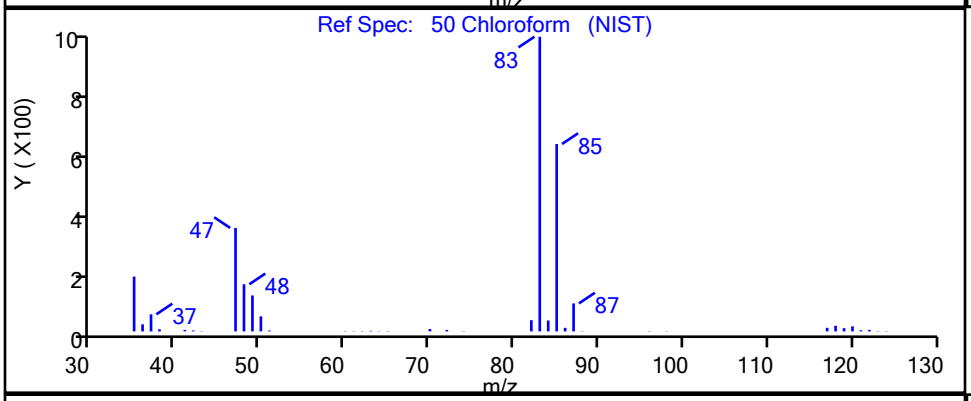
50 Chloroform, CAS: 67-66-3

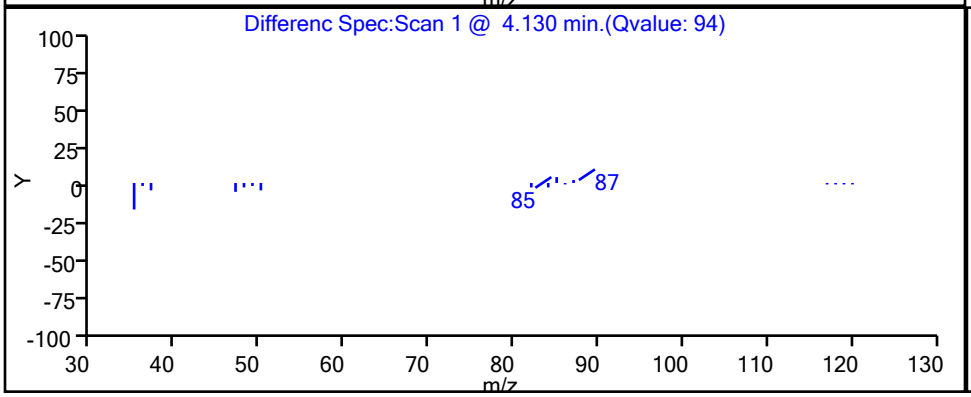


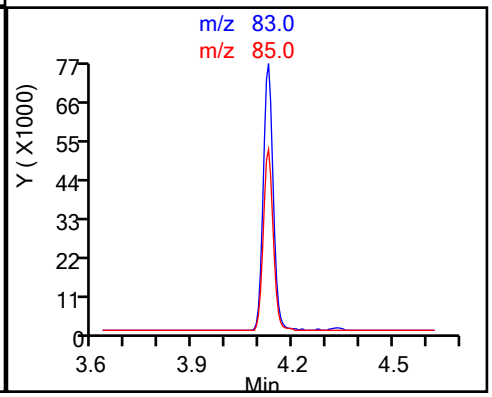












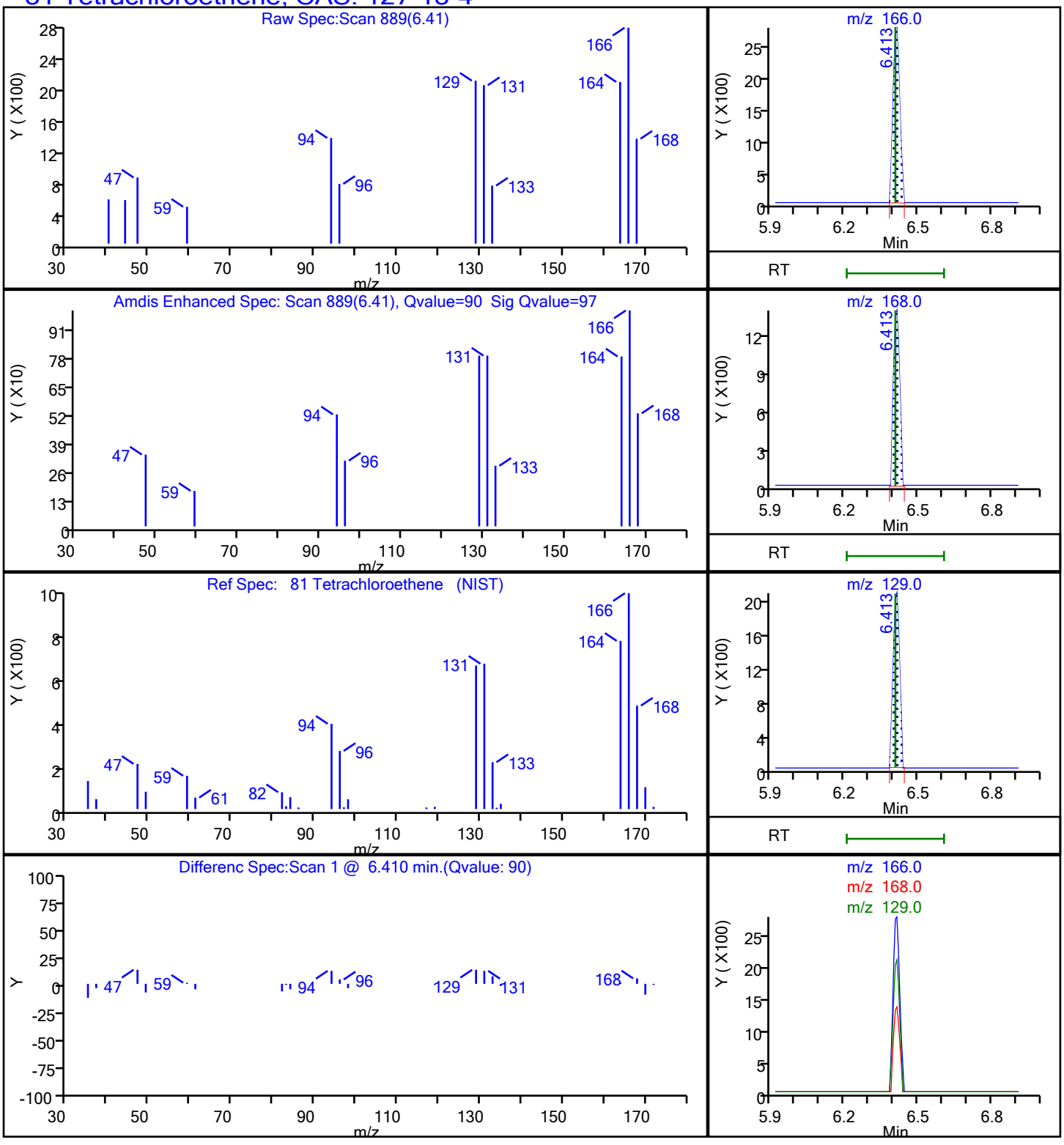
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8352.d

Injection Date:	28-Oct-2024 17:28:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-11	Lab Sample ID:	480-224872-11		
Client ID:	EW-6-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-7-102324 | Lab Sample ID: 480-224872-12

Matrix: Water | Lab File ID: D8353.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 17:50

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	41	U	100	41
75-15-0	Carbon disulfide	19	U	100	19
56-23-5	Carbon tetrachloride	6800		100	27
108-90-7	Chlorobenzene	75	U	100	75
67-66-3	Chloroform	630		100	34
75-09-2	Methylene Chloride	44	U	100	44
127-18-4	Tetrachloroethene	41	J	100	36
108-88-3	Toluene	51	U	100	51
79-01-6	Trichloroethene	46	U	100	46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Report Date: 29-Oct-2024 13:51:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8353.d
Lims ID: 480-224872-A-12
Client ID: EW-7-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:50:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-12
Misc. Info.: 480-0120860-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:51:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	96147	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	191226	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	227754	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.007	92	175404	28.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	99	98774	28.2	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	464021	25.1	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.127	4.120	0.007	95	58187	6.33	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	452224	67.9	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.413	6.412	0.007	83	2107	0.4140	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

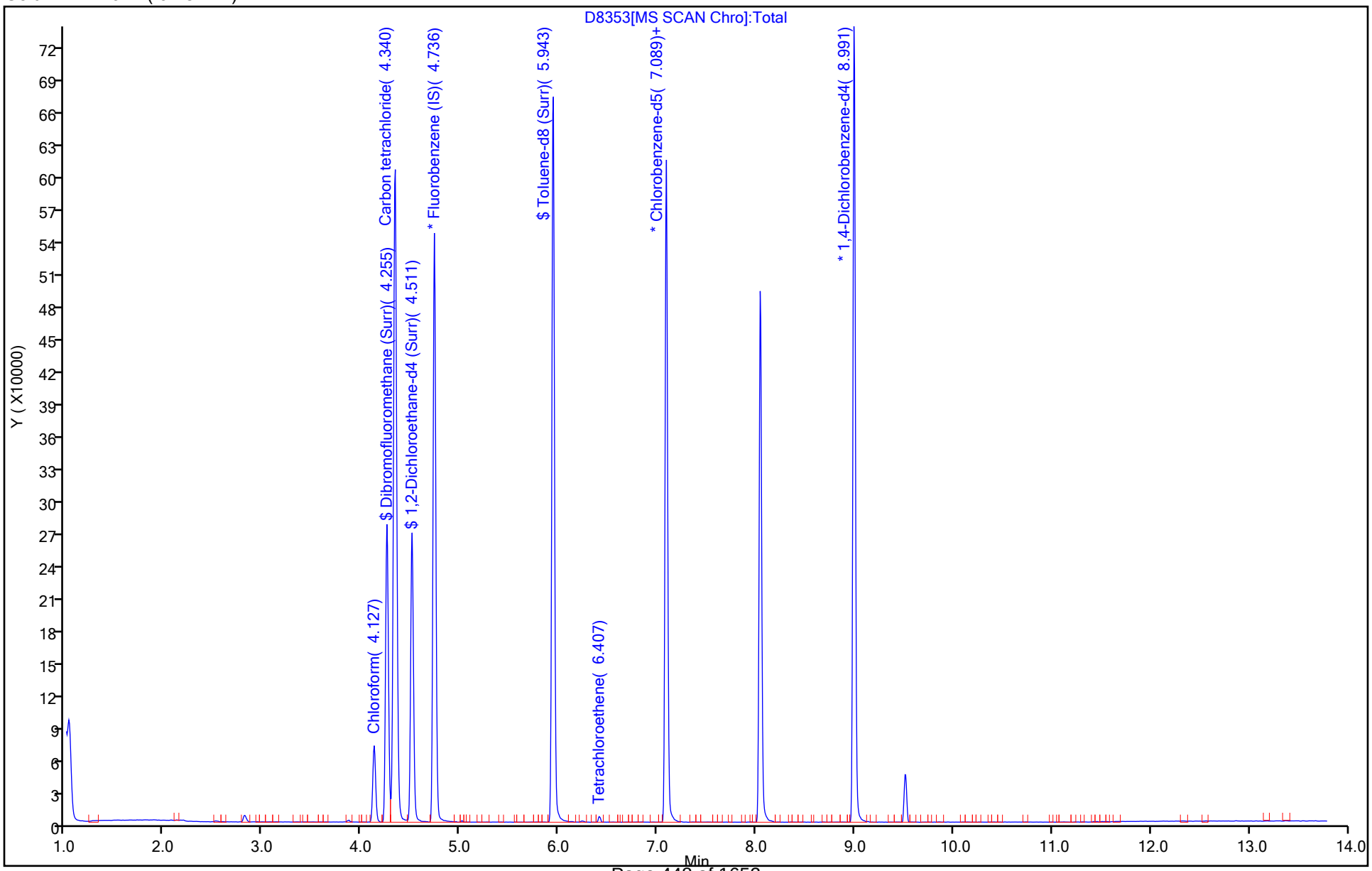
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8353.d

Injection Date:	28-Oct-2024 17:50:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-12	Lab Sample ID:	480-224872-12	Worklist Smp#:	20
Client ID:	EW-7-102324				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	18
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8353.d
Lims ID: 480-224872-A-12
Client ID: EW-7-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 17:50:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-12
Misc. Info.: 480-0120860-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:51:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.4	113.50
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.70
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.58

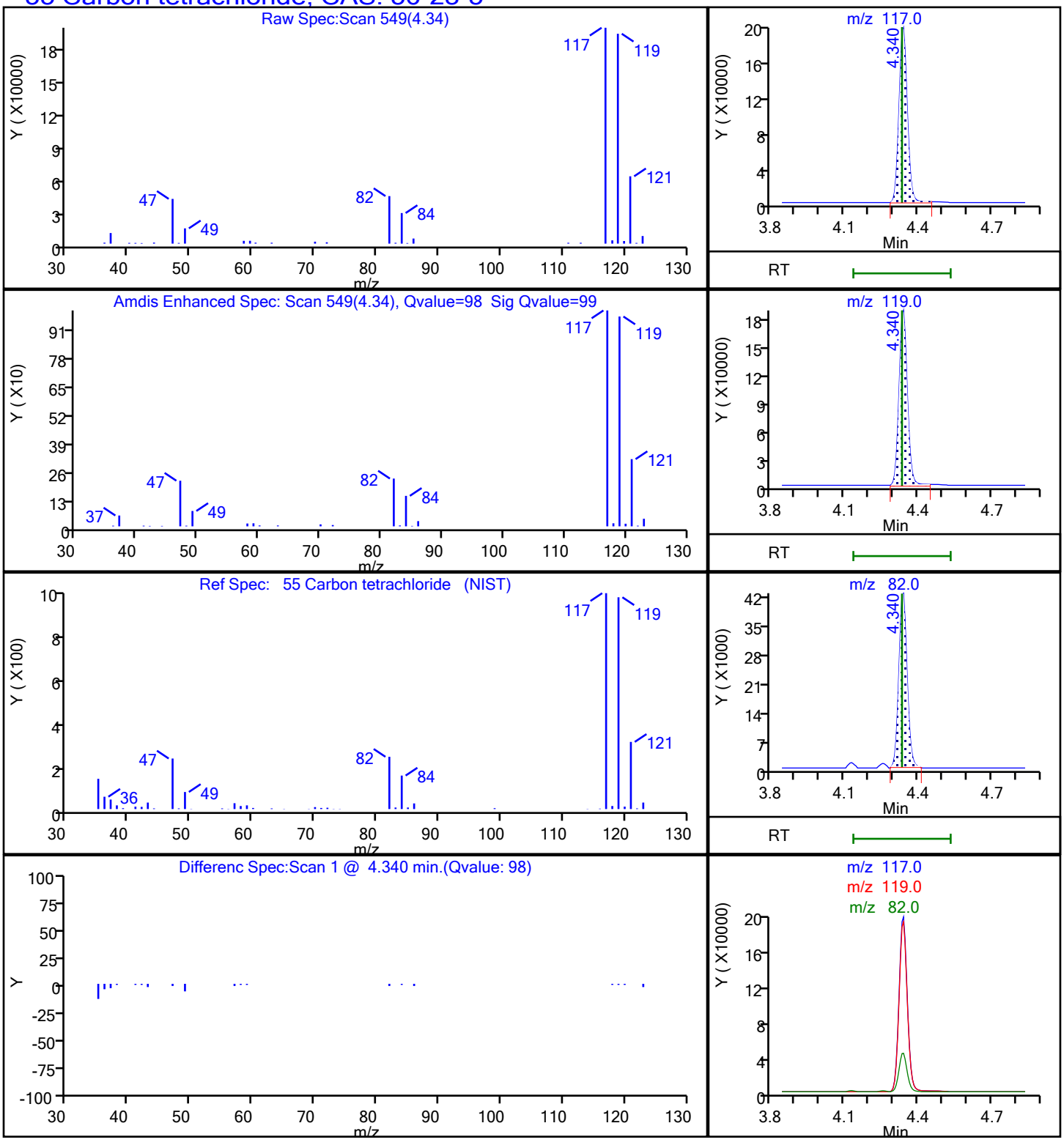
Report Date: 29-Oct-2024 13:51:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8353.d

Injection Date:	28-Oct-2024 17:50:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-12	Lab Sample ID:	480-224872-12		
Client ID:	EW-7-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



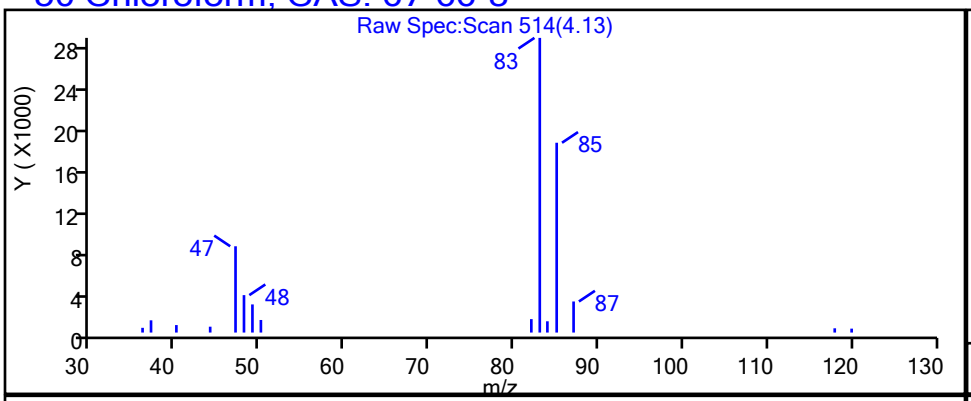
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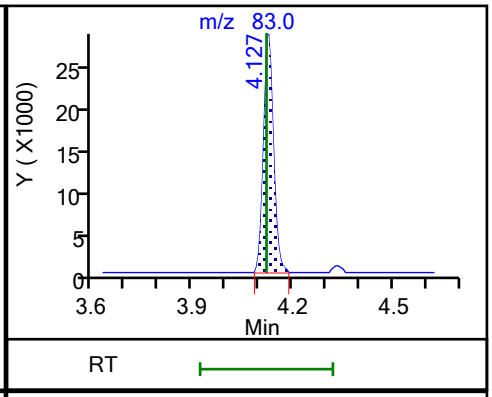
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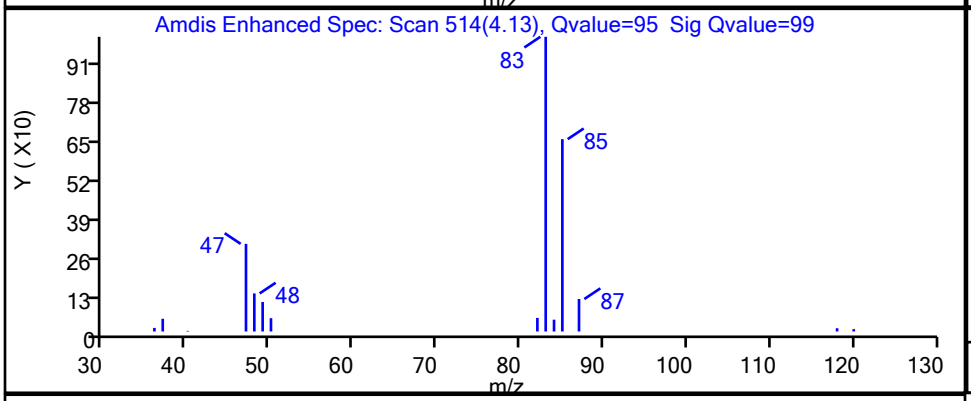
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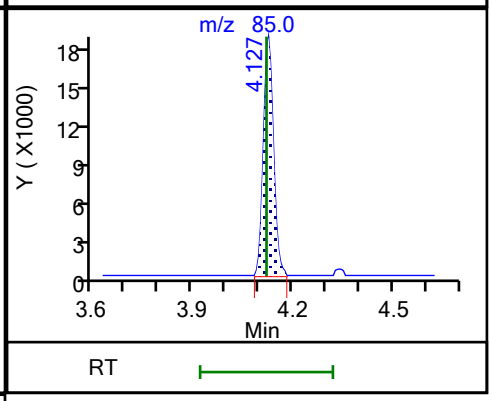
Injection Date:	28-Oct-2024 17:50:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-12	Lab Sample ID:	480-224872-12
Client ID:	EW-7-102324		
Operator ID:	AK	ALS Bottle#:	18 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

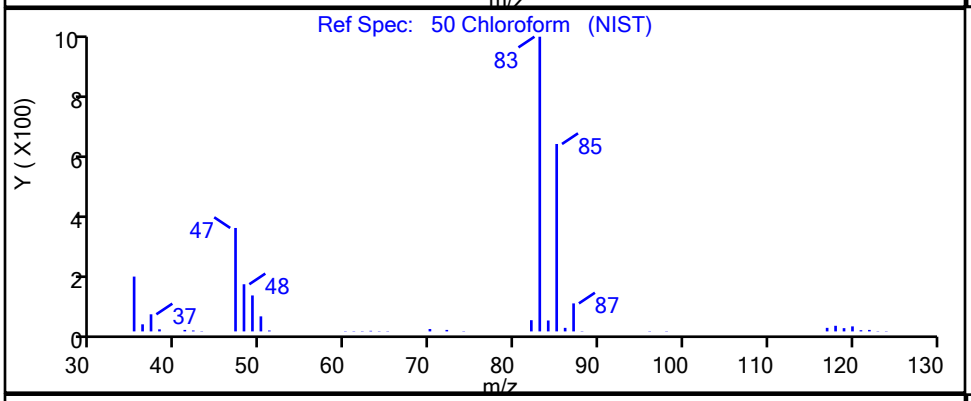
50 Chloroform, CAS: 67-66-3

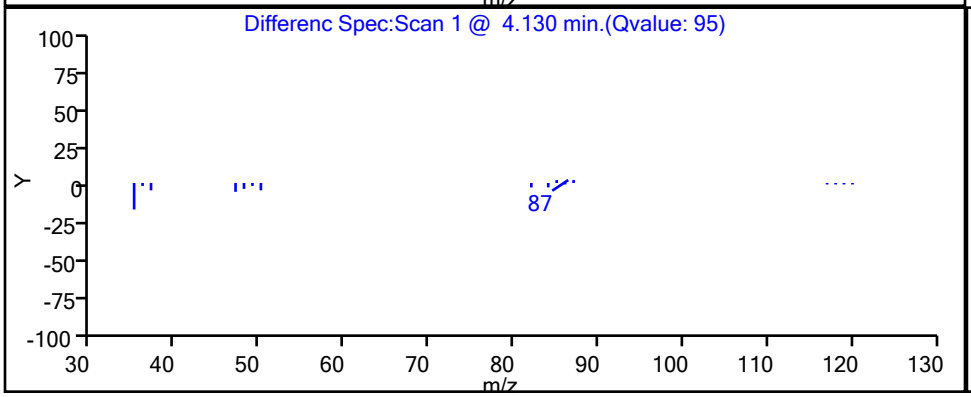


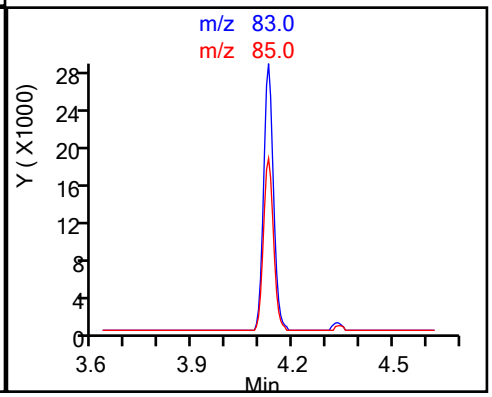












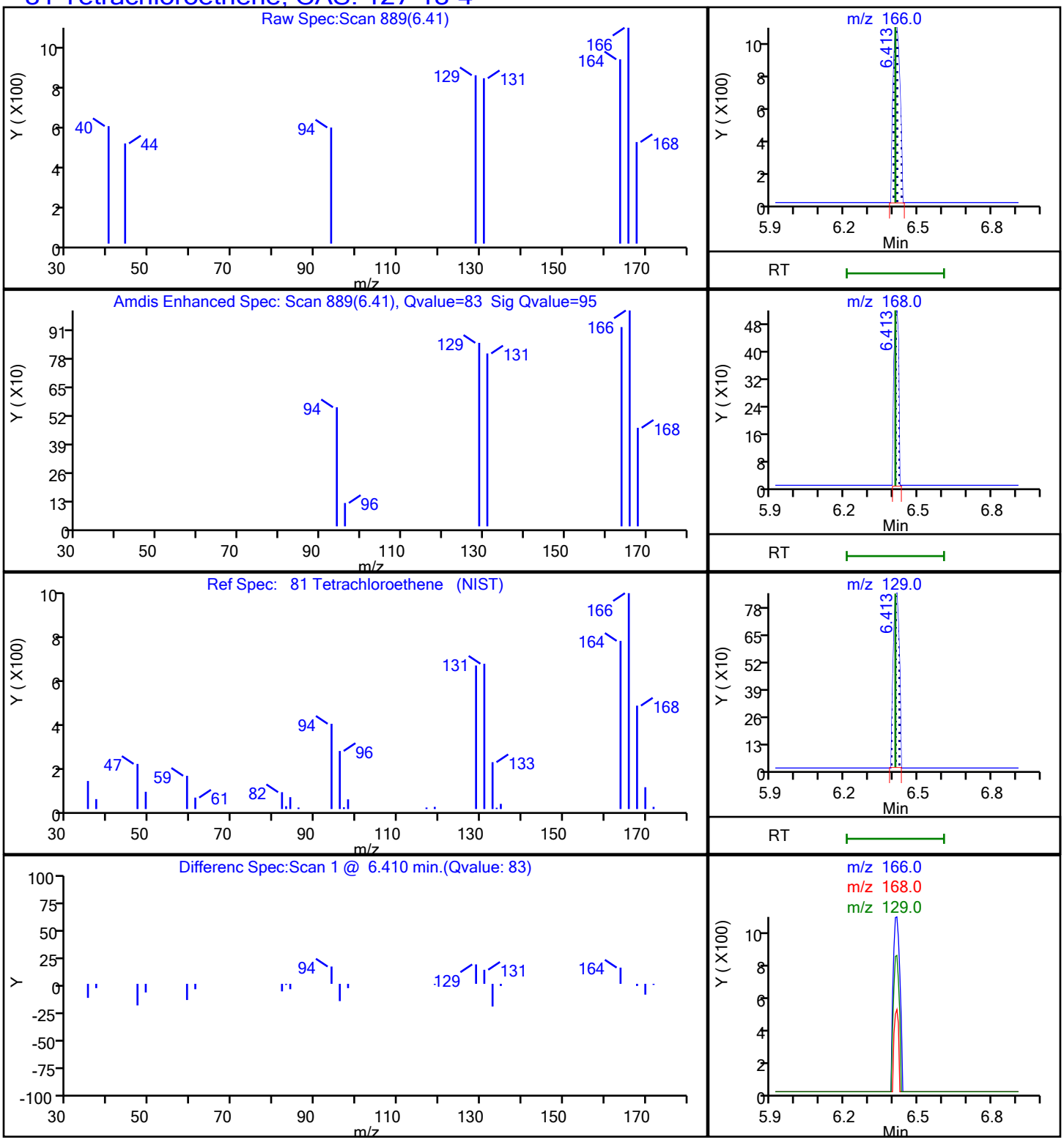
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8353.d

Injection Date:	28-Oct-2024 17:50:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-12	Lab Sample ID:	480-224872-12		
Client ID:	EW-7-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



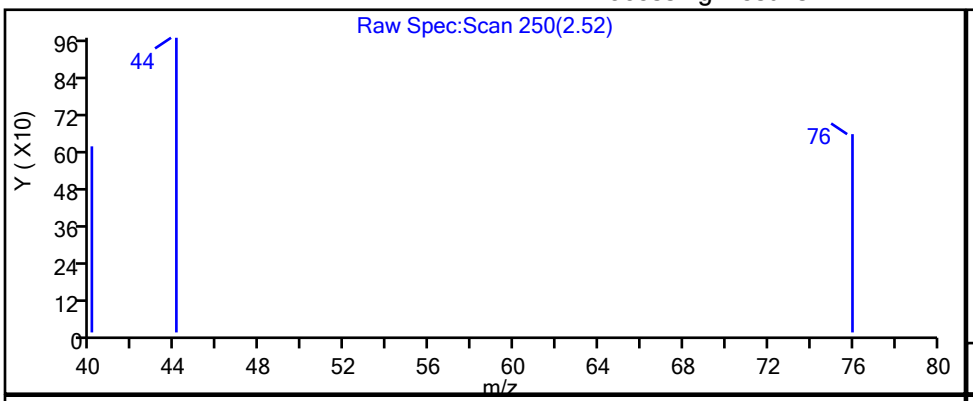
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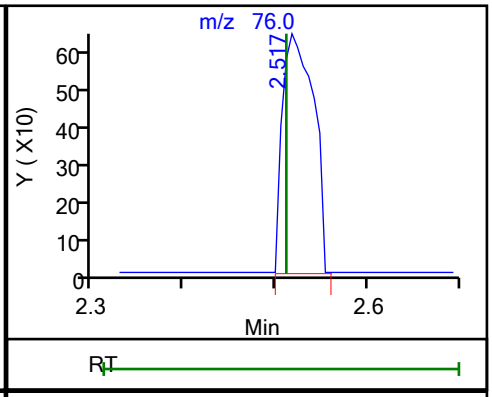
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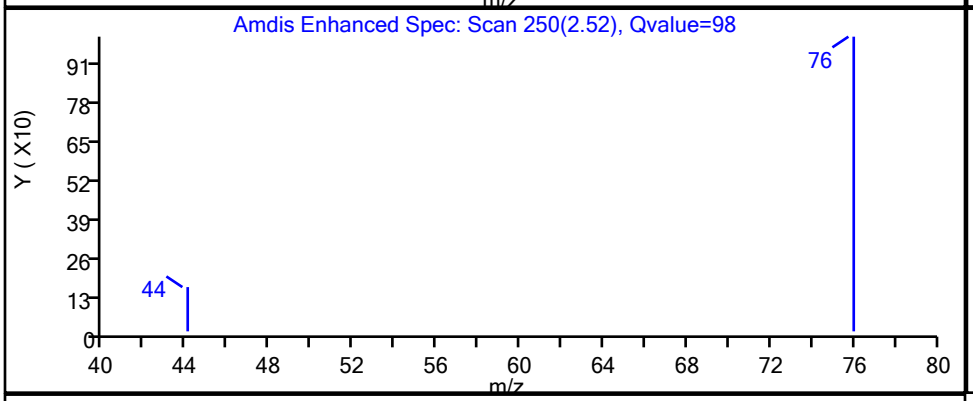
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Injection Date:	28-Oct-2024 17:50:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-12	Lab Sample ID:	480-224872-12		
Client ID:	EW-7-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

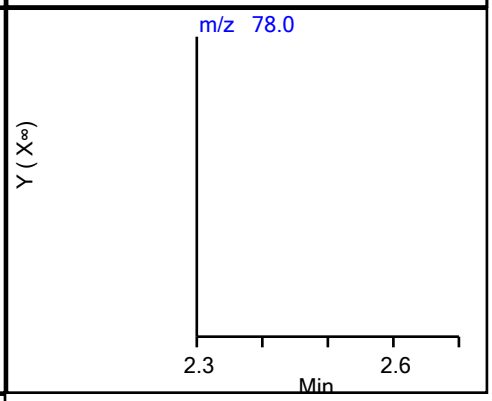
26 Carbon disulfide, CAS: 75-15-0

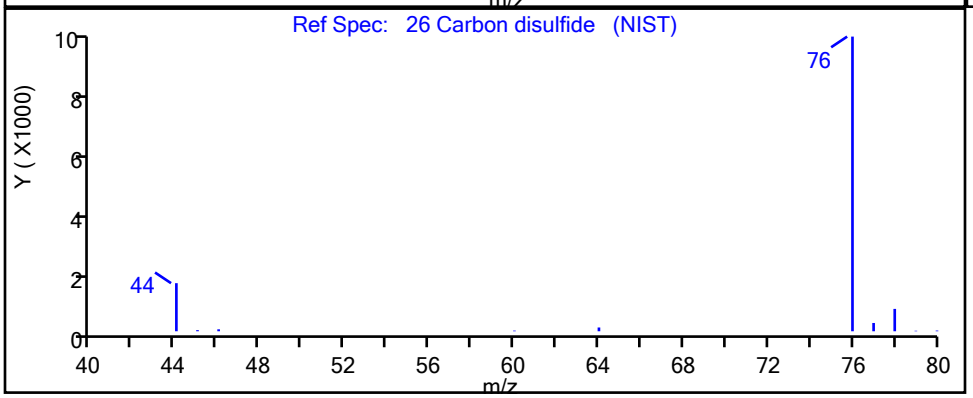
Processing Results











RT	Mass	Response	Amount
2.52	76.00	1535	0.106276
2.51	78.00	0	

Reviewer: R3QB, 29-Oct-2024 13:51:38 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: DPA-202-102324 | Lab Sample ID: 480-224872-13

Matrix: Water | Lab File ID: D8417.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 17:52

Soil Aliquot Vol: | Dilution Factor: 200

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	82	U	200	82
75-15-0	Carbon disulfide	38	U	200	38
56-23-5	Carbon tetrachloride	11000		200	54
108-90-7	Chlorobenzene	150	U	200	150
67-66-3	Chloroform	1800		200	68
75-09-2	Methylene Chloride	88	U	200	88
127-18-4	Tetrachloroethene	340		200	72
108-88-3	Toluene	100	U	200	100
79-01-6	Trichloroethene	92	U	200	92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Report Date: 29-Oct-2024 18:35:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d
Lims ID: 480-224872-B-13
Client ID: DPA-202-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 17:52:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-B-13
Misc. Info.: 480-0120894-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	98237	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	208070	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	237787	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.266	-0.001	92	178897	28.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	99619	27.8	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	501191	25.0	
26 Carbon disulfide	76		2.541				ND	7
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.132	4.133	-0.001	95	84082	8.95	
55 Carbon tetrachloride	117	4.346	4.346	0.000	98	360208	52.9	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.413	0.006	95	9538	1.72	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

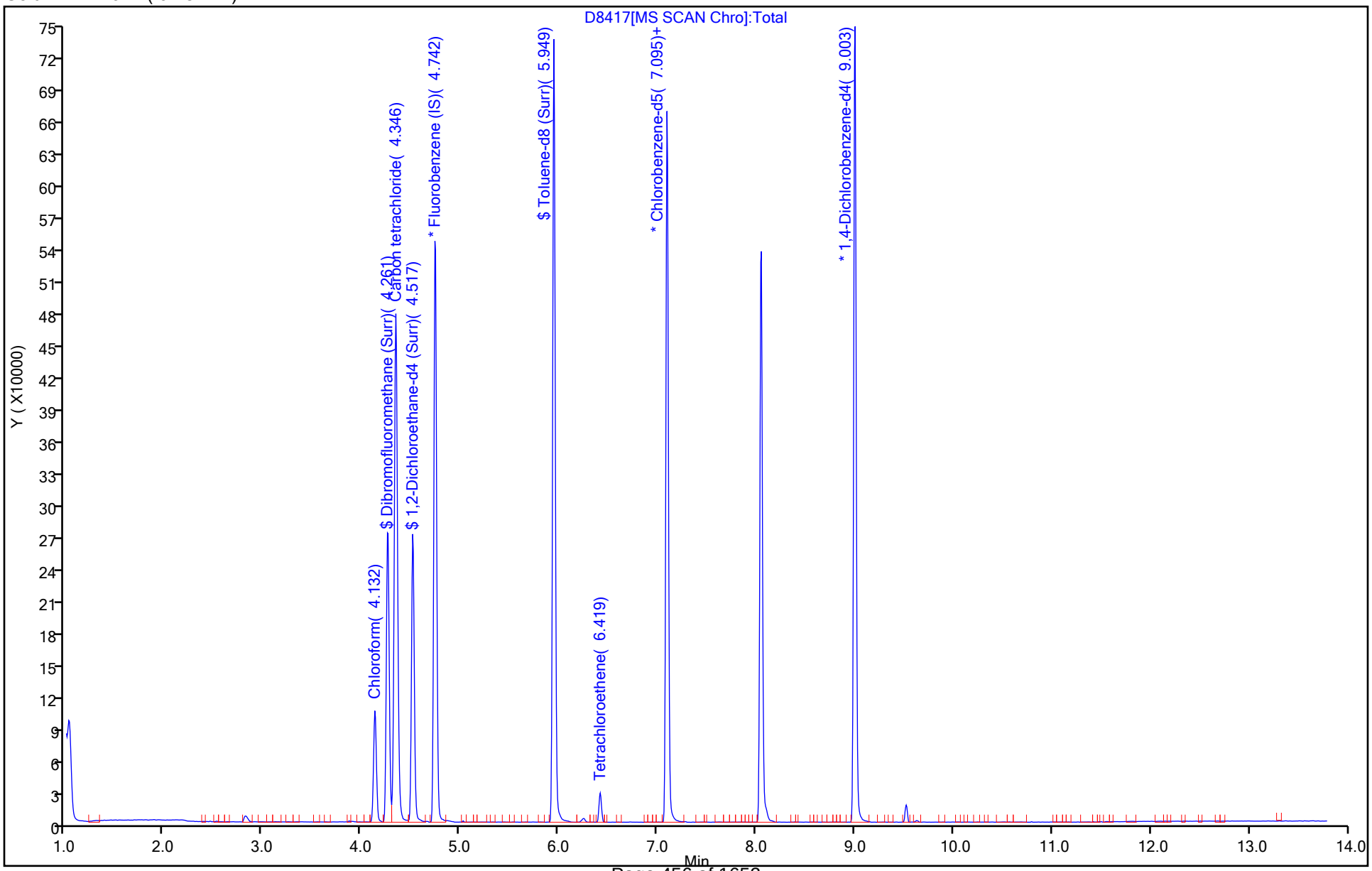
Report Date: 29-Oct-2024 18:35:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d

Injection Date:	29-Oct-2024 17:52:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-13	Lab Sample ID:	480-224872-13	Worklist Smp#:	15
Client ID:	DPA-202-102324				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	13
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d
Lims ID: 480-224872-B-13
Client ID: DPA-202-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 17:52:30 ALS Bottle#: 13 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-B-13
Misc. Info.: 480-0120894-015
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.3	113.30
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.25
$ 5 Toluene-d8 (Surr)	25.0	25.0	99.84

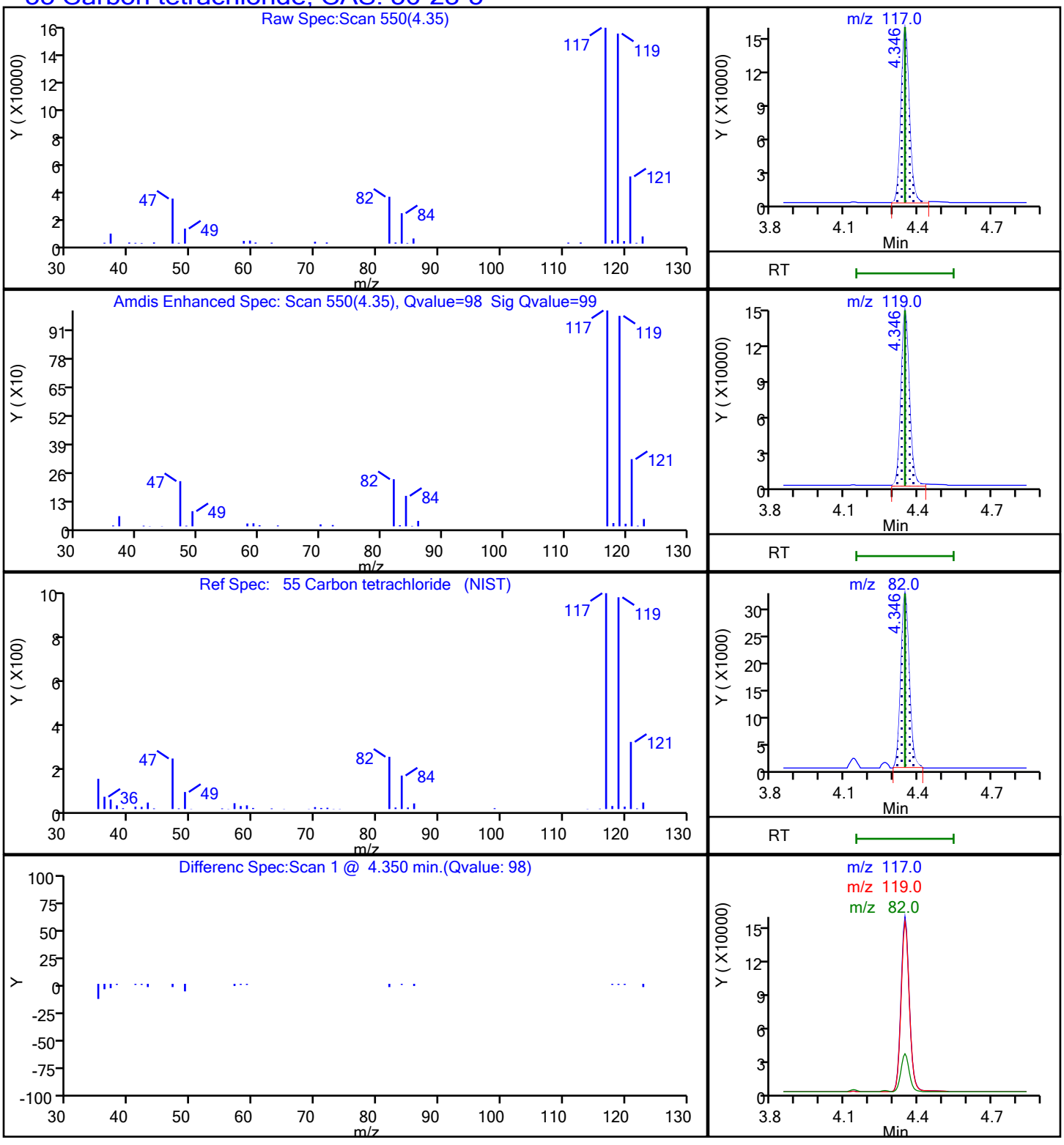
Report Date: 29-Oct-2024 18:35:16 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d

Injection Date:	29-Oct-2024 17:52:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-13	Lab Sample ID:	480-224872-13		
Client ID:	DPA-202-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



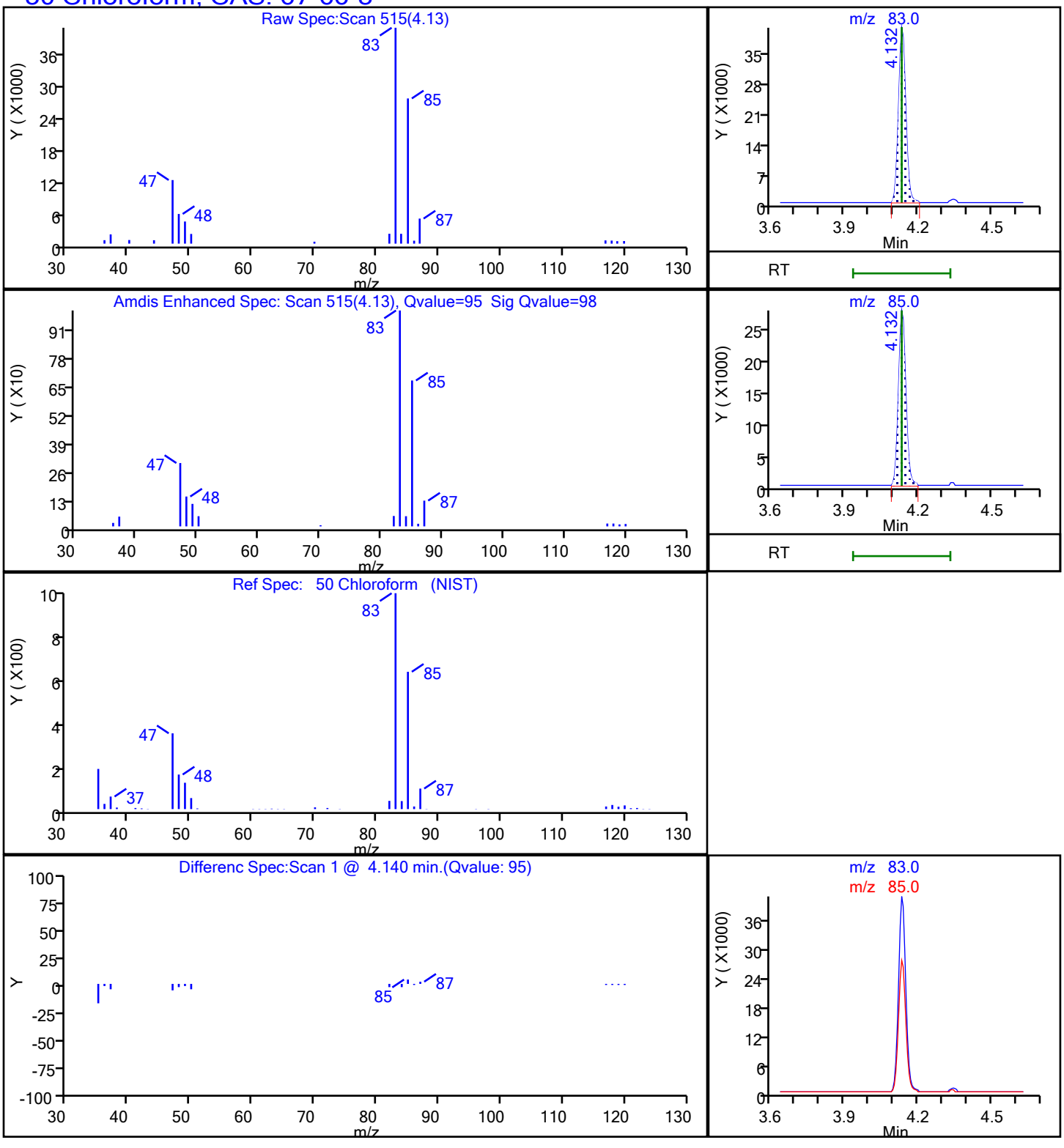
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d

Injection Date:	29-Oct-2024 17:52:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-13	Lab Sample ID:	480-224872-13		
Client ID:	DPA-202-102324				
Operator ID:	AK	ALS Bottle#:	13	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	200.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



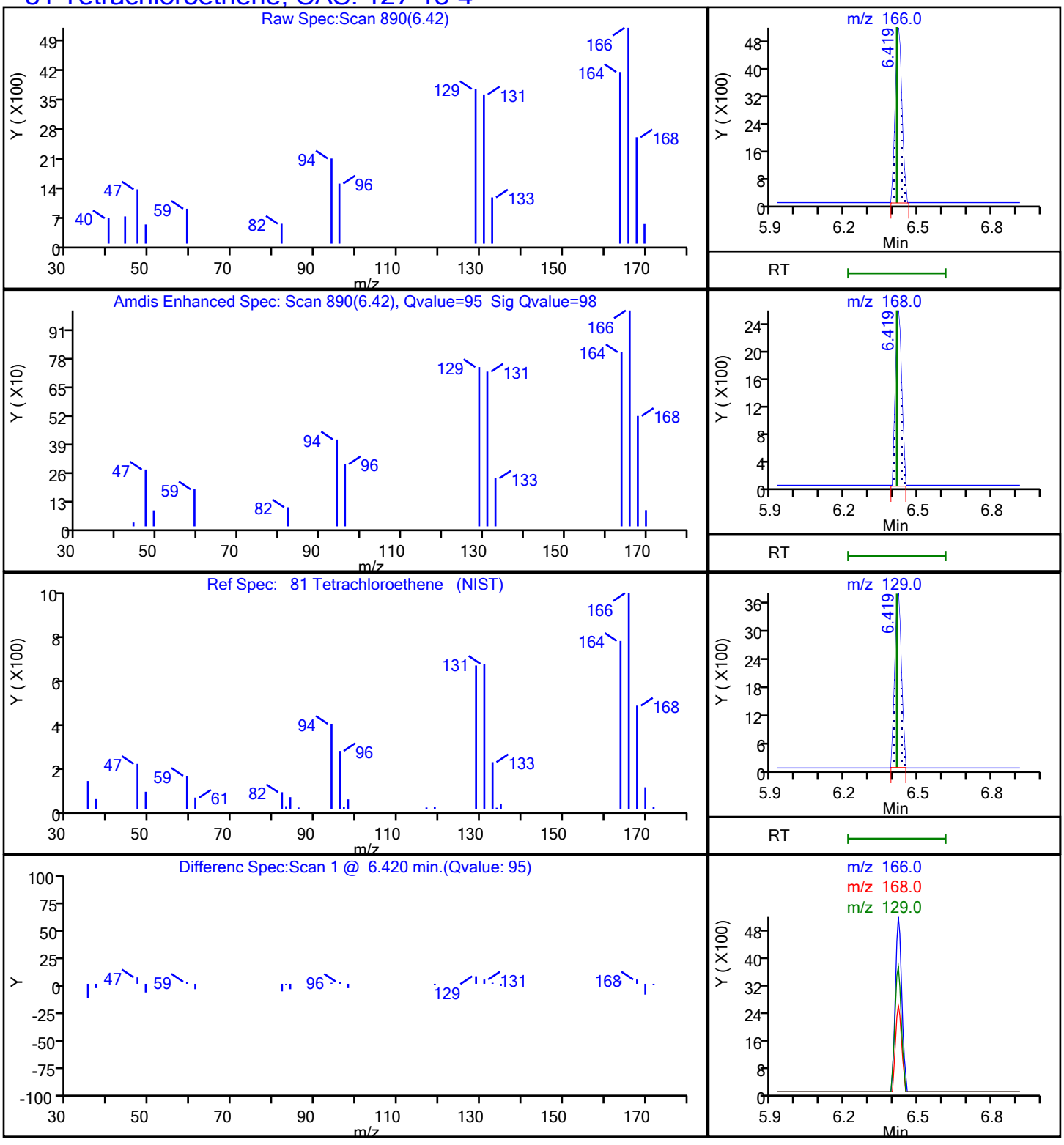
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8417.d

Injection Date:	29-Oct-2024 17:52:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-13	Lab Sample ID:	480-224872-13
Client ID:	DPA-202-102324		
Operator ID:	AK	ALS Bottle#:	13 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-66-102324 | Lab Sample ID: 480-224872-14

Matrix: Water | Lab File ID: D8418.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 18:14

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	16	U	40	16
75-15-0	Carbon disulfide	7.6	U	40	7.6
56-23-5	Carbon tetrachloride	2000	F1	40	11
108-90-7	Chlorobenzene	30	U	40	30
67-66-3	Chloroform	330		40	14
75-09-2	Methylene Chloride	18	U	40	18
127-18-4	Tetrachloroethene	89		40	14
108-88-3	Toluene	20	U	40	20
79-01-6	Trichloroethene	18	U	40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Report Date: 29-Oct-2024 18:35:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8418.d
Lims ID: 480-224872-B-14
Client ID: LR-66-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:14:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14
Misc. Info.: 480-0120894-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.748	4.742	0.006	98	98893	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	198878	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	234318	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.266	0.006	92	176745	27.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	98699	27.4	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	484983	25.3	
26 Carbon disulfide	76		2.541				ND	7
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.133	4.133	-0.001	95	79054	8.36	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	344078	50.2	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.413	0.006	96	11730	2.22	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

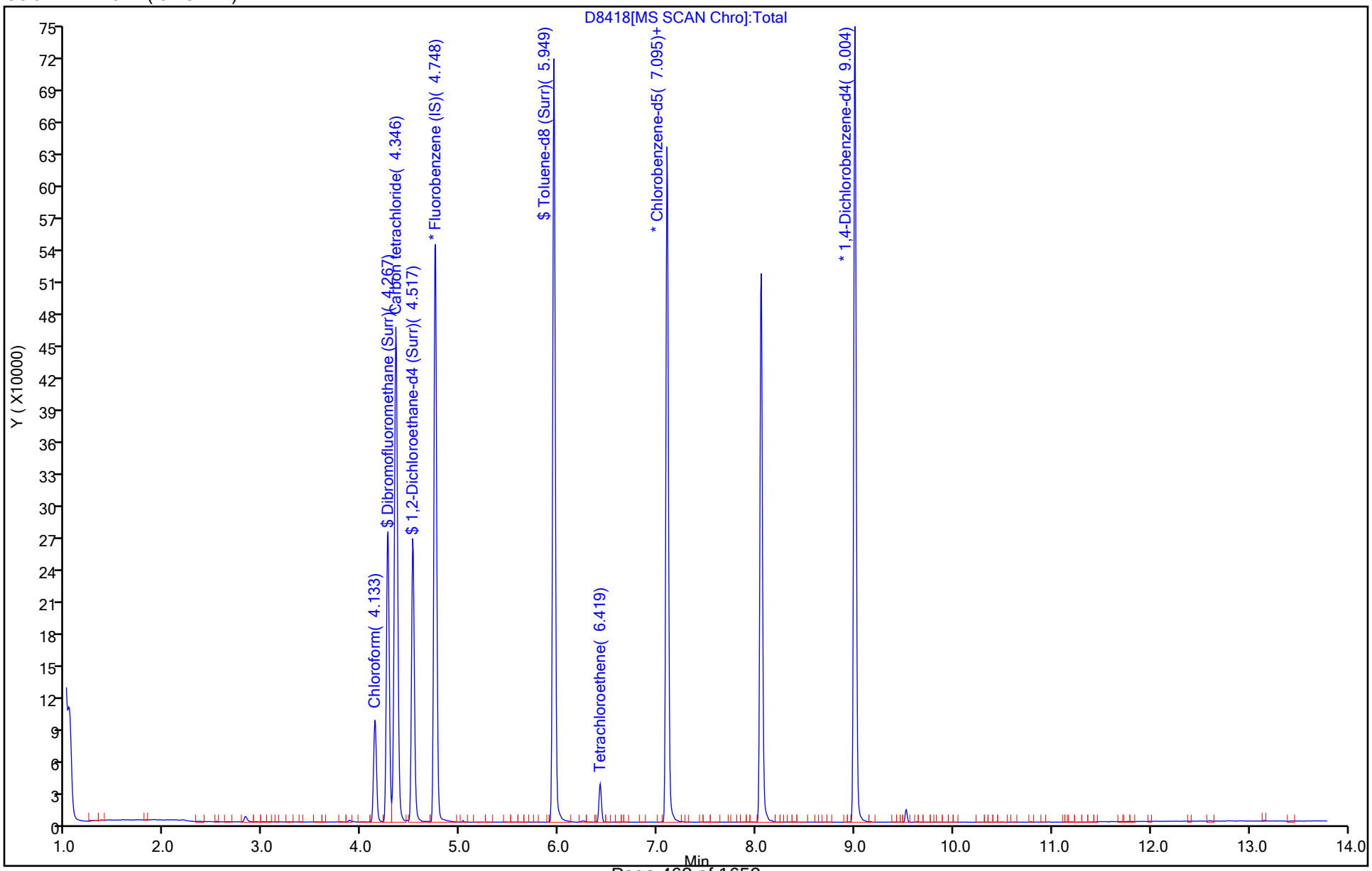
Report Date: 29-Oct-2024 18:35:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8418.d

Injection Date:	29-Oct-2024 18:14:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-14	Lab Sample ID:	480-224872-14	Worklist Smp#:	16
Client ID:	LR-66-102324				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	14
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8418.d
Lims ID: 480-224872-B-14
Client ID: LR-66-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:14:30 ALS Bottle#: 14 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14
Misc. Info.: 480-0120894-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:35:04 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 18:35:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.8	111.19
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.4	109.49
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.08

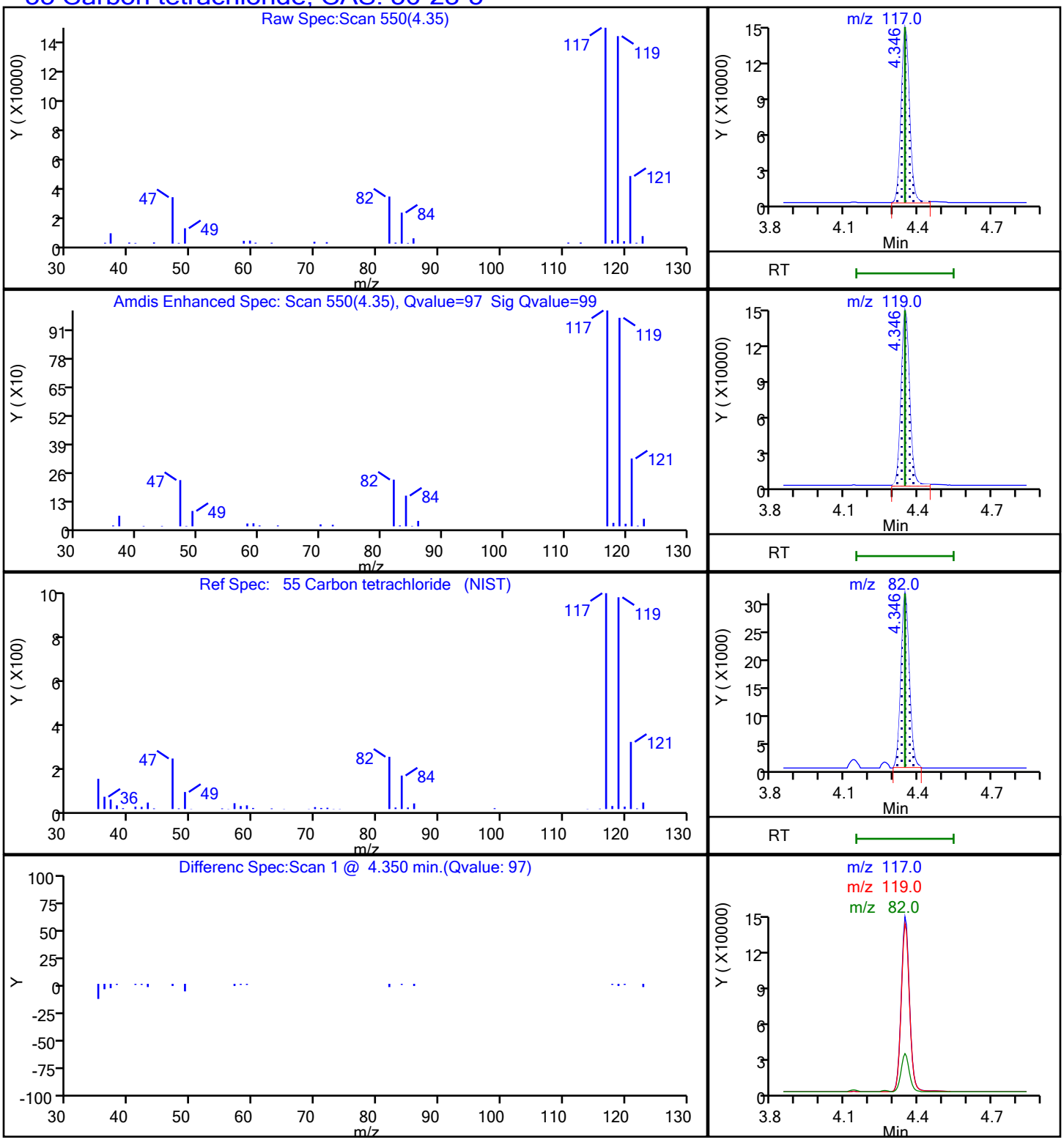
Report Date: 29-Oct-2024 18:35:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8418.d

Injection Date:	29-Oct-2024 18:14:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-14	Lab Sample ID:	480-224872-14		
Client ID:	LR-66-102324				
Operator ID:	AK	ALS Bottle#:	14	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



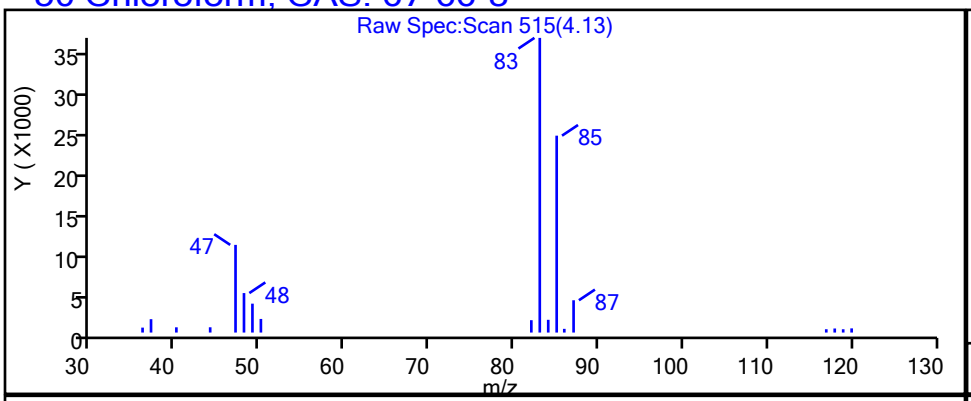
Report Date: 29-Oct-2024 18:35:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

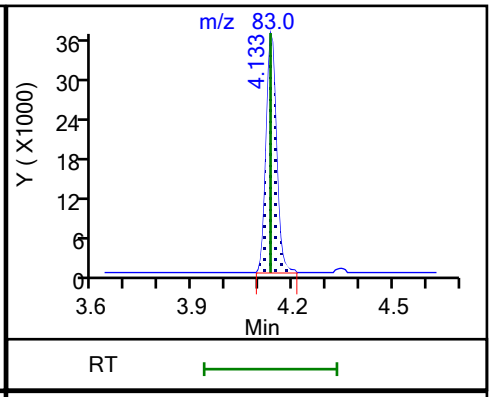
Eurofins Buffalo

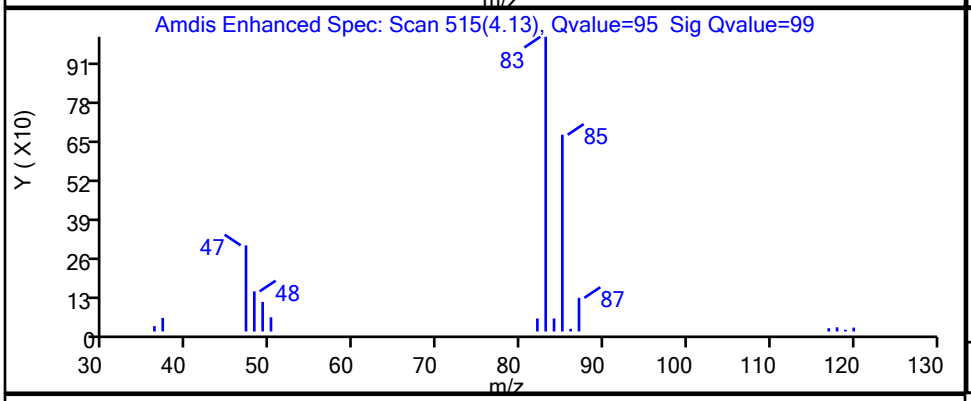
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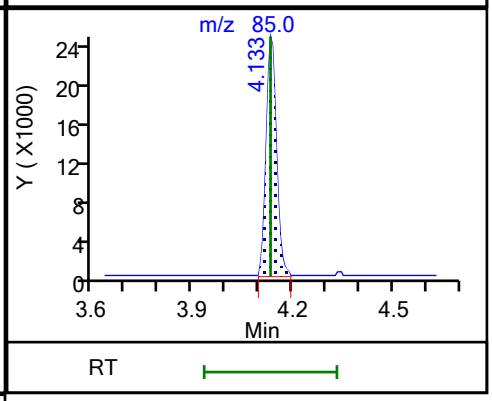
Injection Date:	29-Oct-2024 18:14:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-14	Lab Sample ID:	480-224872-14
Client ID:	LR-66-102324		
Operator ID:	AK	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

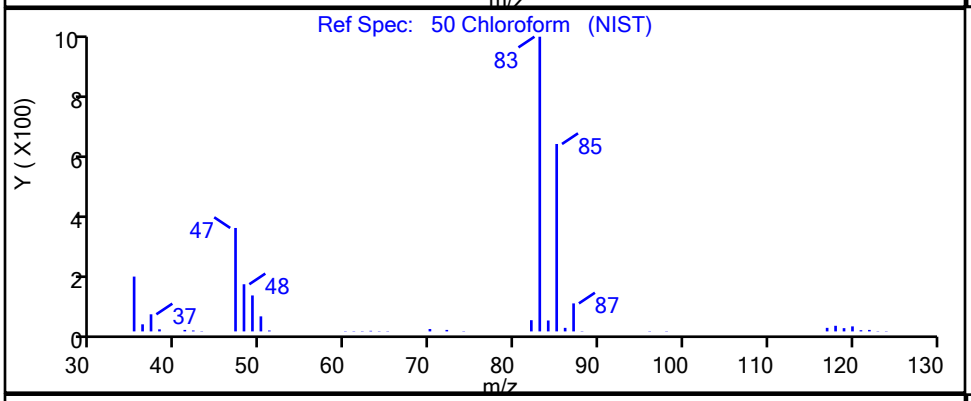
50 Chloroform, CAS: 67-66-3

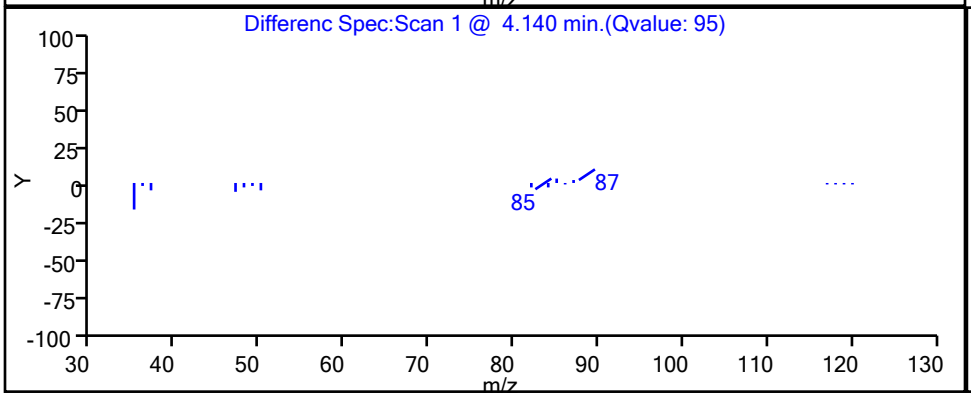


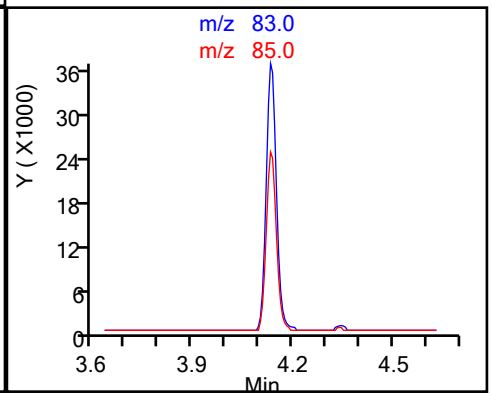












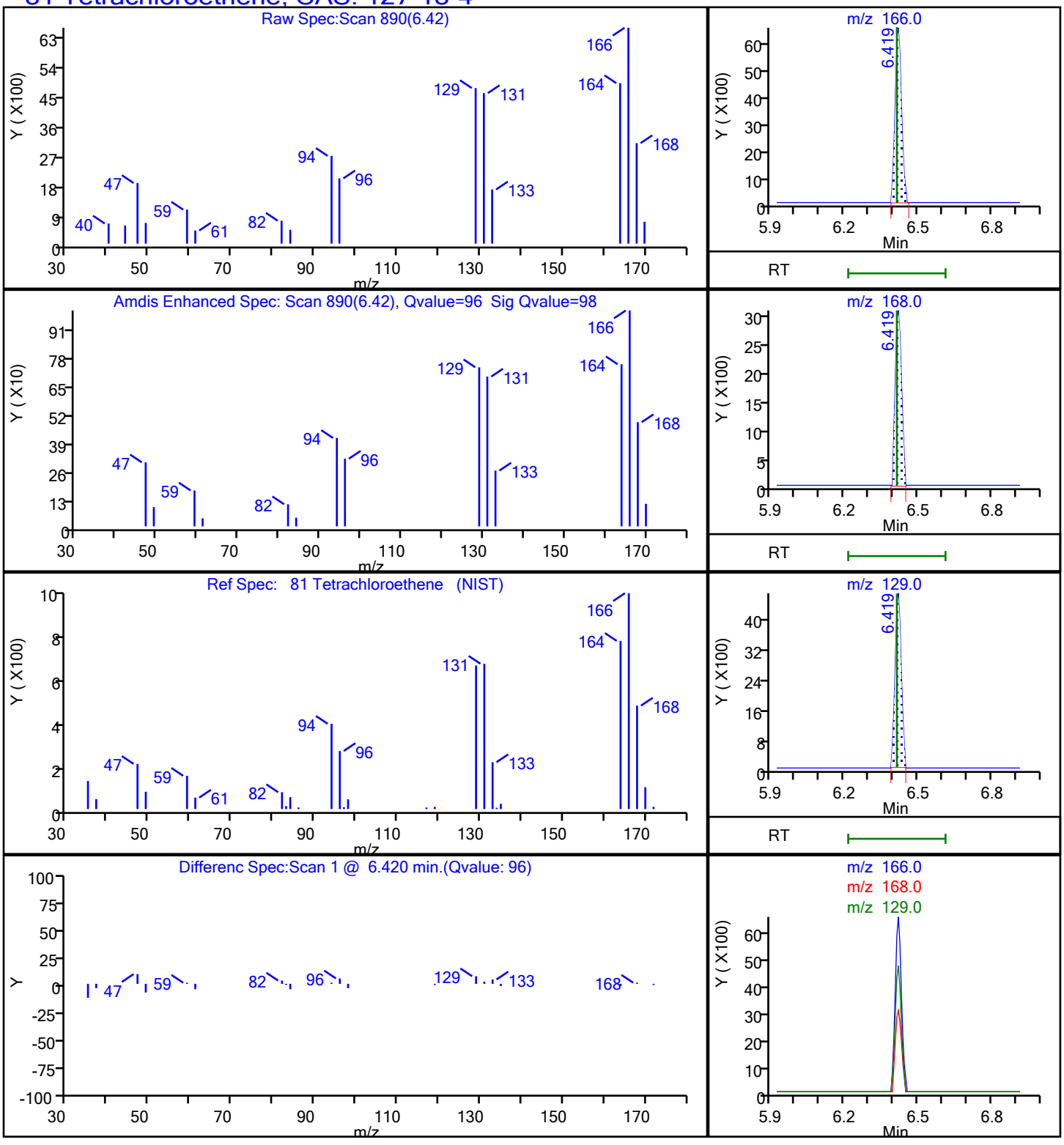
Report Date: 29-Oct-2024 18:35:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8418.d

Injection Date:	29-Oct-2024 18:14:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-14	Lab Sample ID:	480-224872-14
Client ID:	LR-66-102324		
Operator ID:	AK	ALS Bottle#:	14 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: OW-3-102324 | Lab Sample ID: 480-224872-15

Matrix: Water | Lab File ID: D8356.d

Analysis Method: 8260C | Date Collected: 10/23/2024 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 18:57

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	97	J	100	41
75-15-0	*Carbon disulfide*	*100000*	*E*	*100*	*19*
56-23-5	Carbon tetrachloride	610		100	27
108-90-7	Chlorobenzene	75	U	100	75
67-66-3	Chloroform	1100		100	34
75-09-2	Methylene Chloride	44	U	100	44
127-18-4	Tetrachloroethene	140		100	36
108-88-3	Toluene	130		100	51
79-01-6	Trichloroethene	46	U	100	46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d
Lims ID: 480-224872-A-15
Client ID: OW-3-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 18:57:30 ALS Bottle#: 21 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-15
Misc. Info.: 480-0120860-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:55:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	87964	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	187234	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	225189	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	92	163667	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	99	90174	28.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	448007	24.8	
26 Carbon disulfide	76	2.523	2.511	0.012	100	13255592	1003.1	E
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	95	88388	10.5	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	37016	6.07	
57 Benzene	78	4.517	4.511	0.006	93	15193	0.9679	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92	5.992	5.991	0.006	98	13205	1.28	
81 Tetrachloroethene	166	6.413	6.412	0.007	96	6988	1.40	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

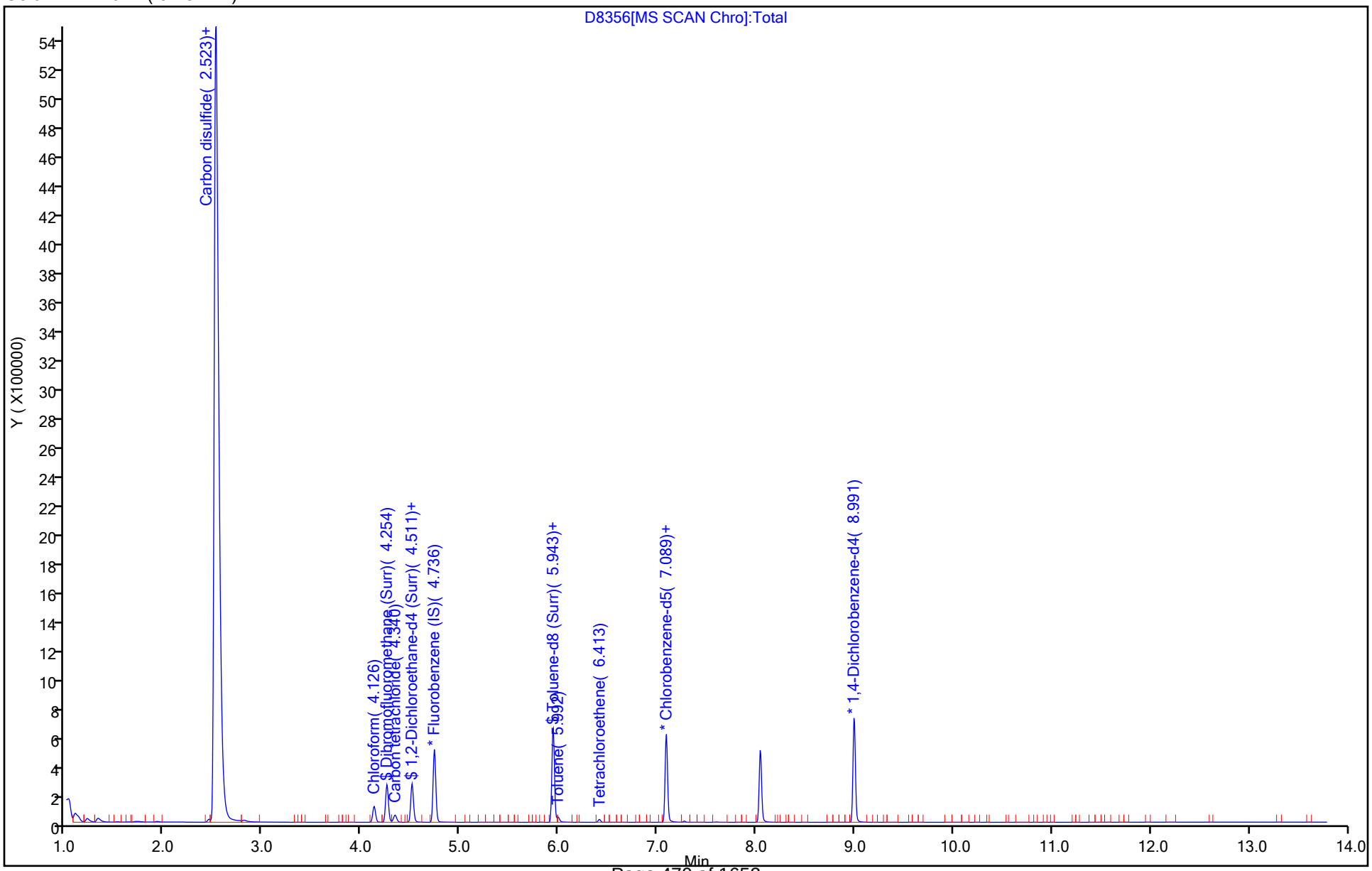
Report Date: 29-Oct-2024 13:55:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d

Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15	Worklist Smp#:	23
Client ID:	OW-3-102324				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	21
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d
Lims ID: 480-224872-A-15
Client ID: OW-3-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 18:57:30 ALS Bottle#: 21 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-15
Misc. Info.: 480-0120860-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:55:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.76
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.1	112.46
$ 5 Toluene-d8 (Surr)	25.0	24.8	99.18

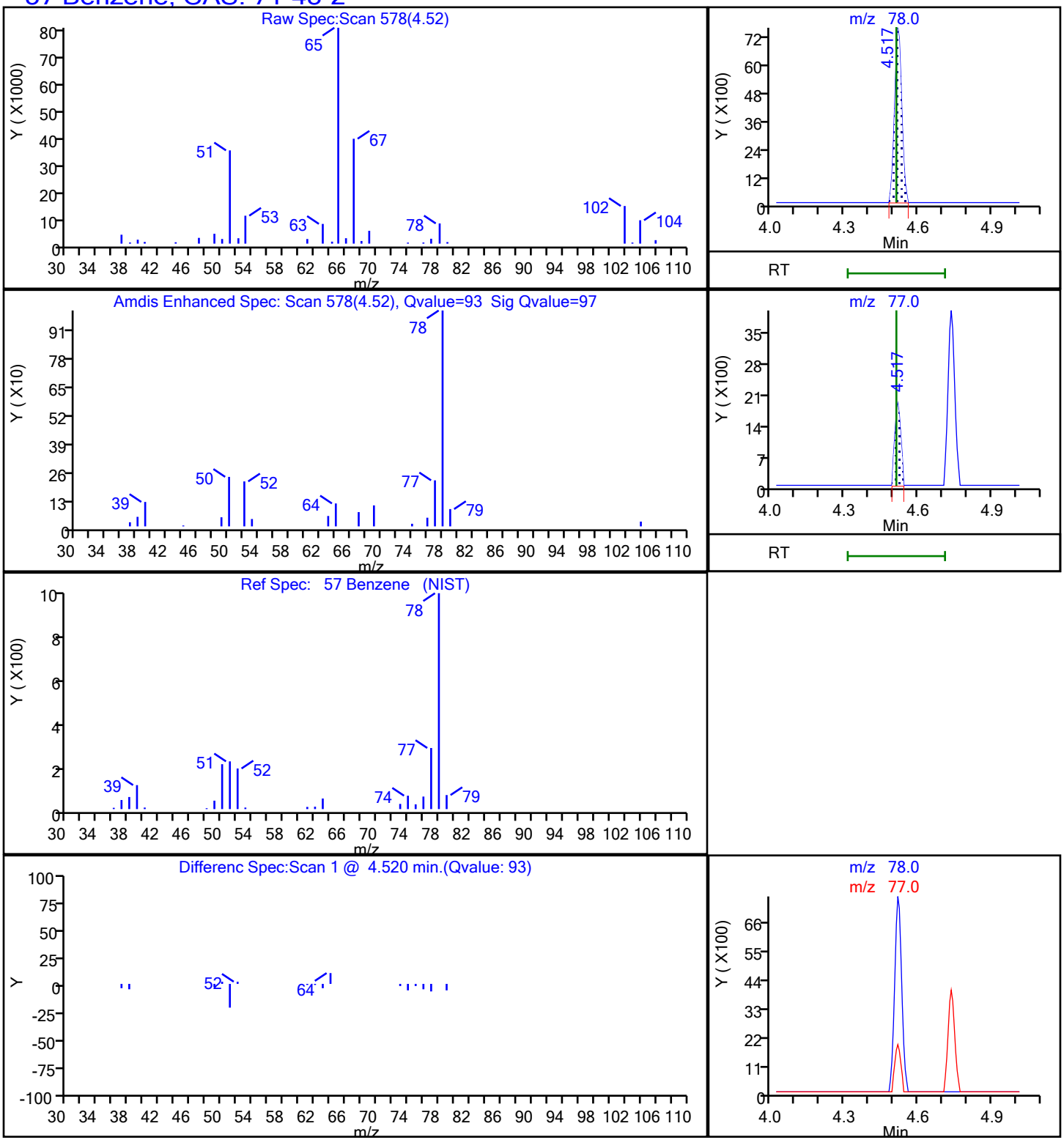
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d

Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15
Client ID:	OW-3-102324		
Operator ID:	AK	ALS Bottle#:	21 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

57 Benzene, CAS: 71-43-2



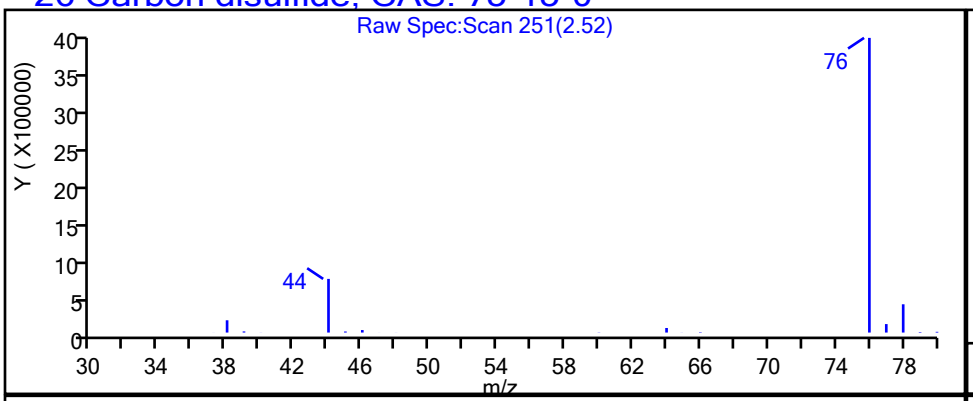
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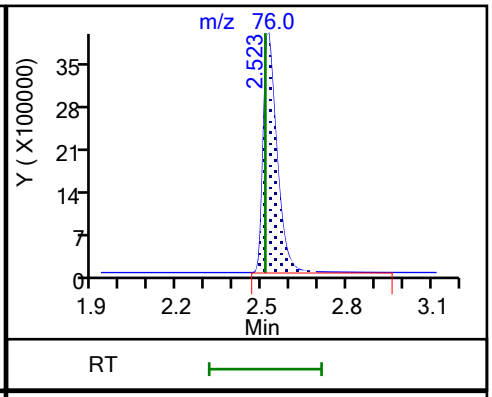
Eurofins Buffalo

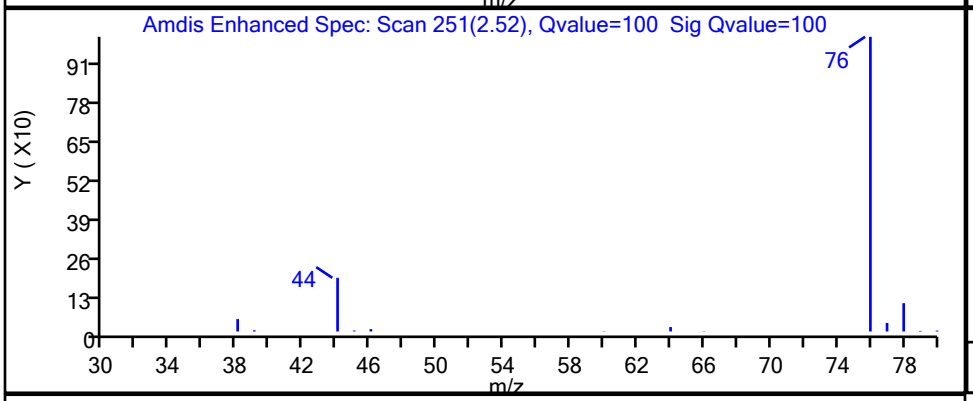
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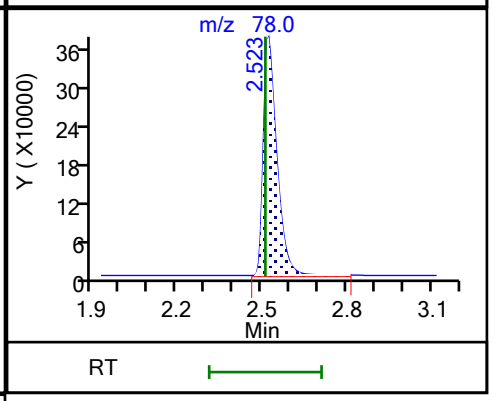
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Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15
Client ID:	OW-3-102324		
Operator ID:	AK	ALS Bottle#:	21 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

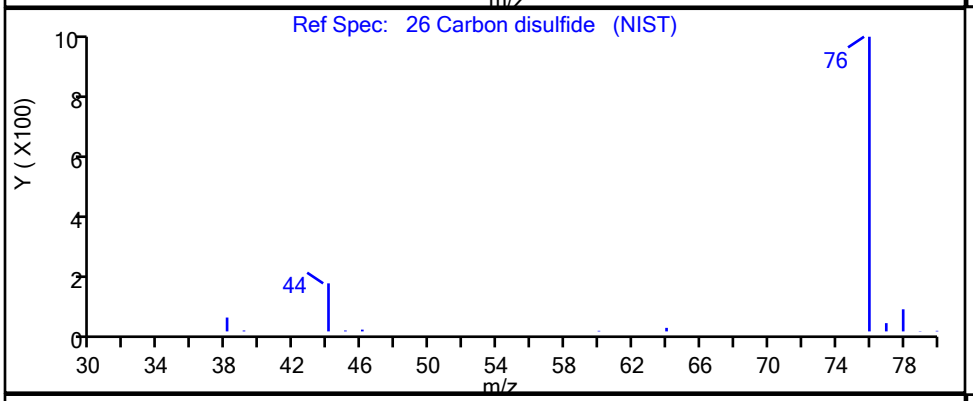
26 Carbon disulfide, CAS: 75-15-0

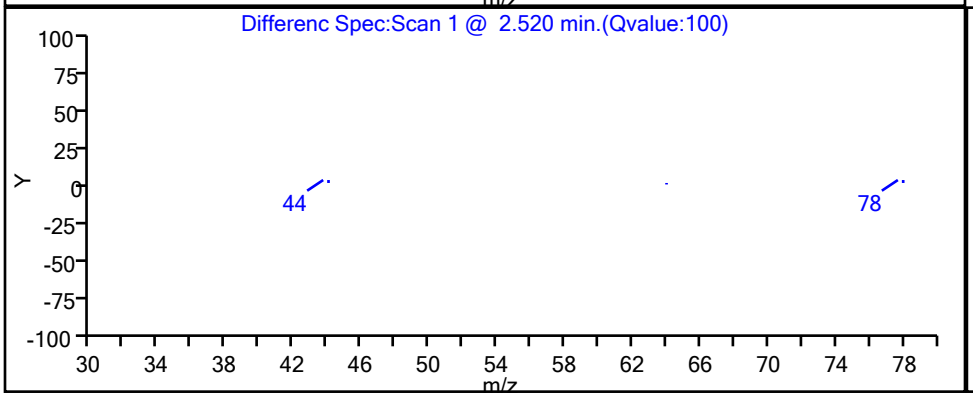


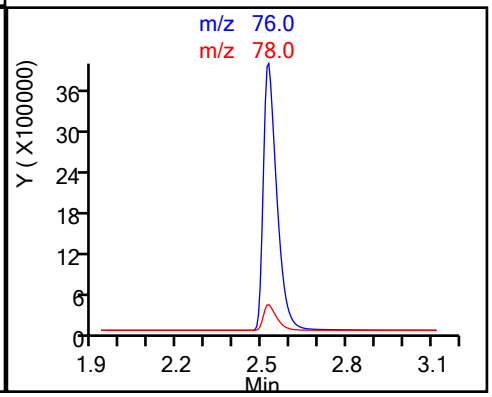












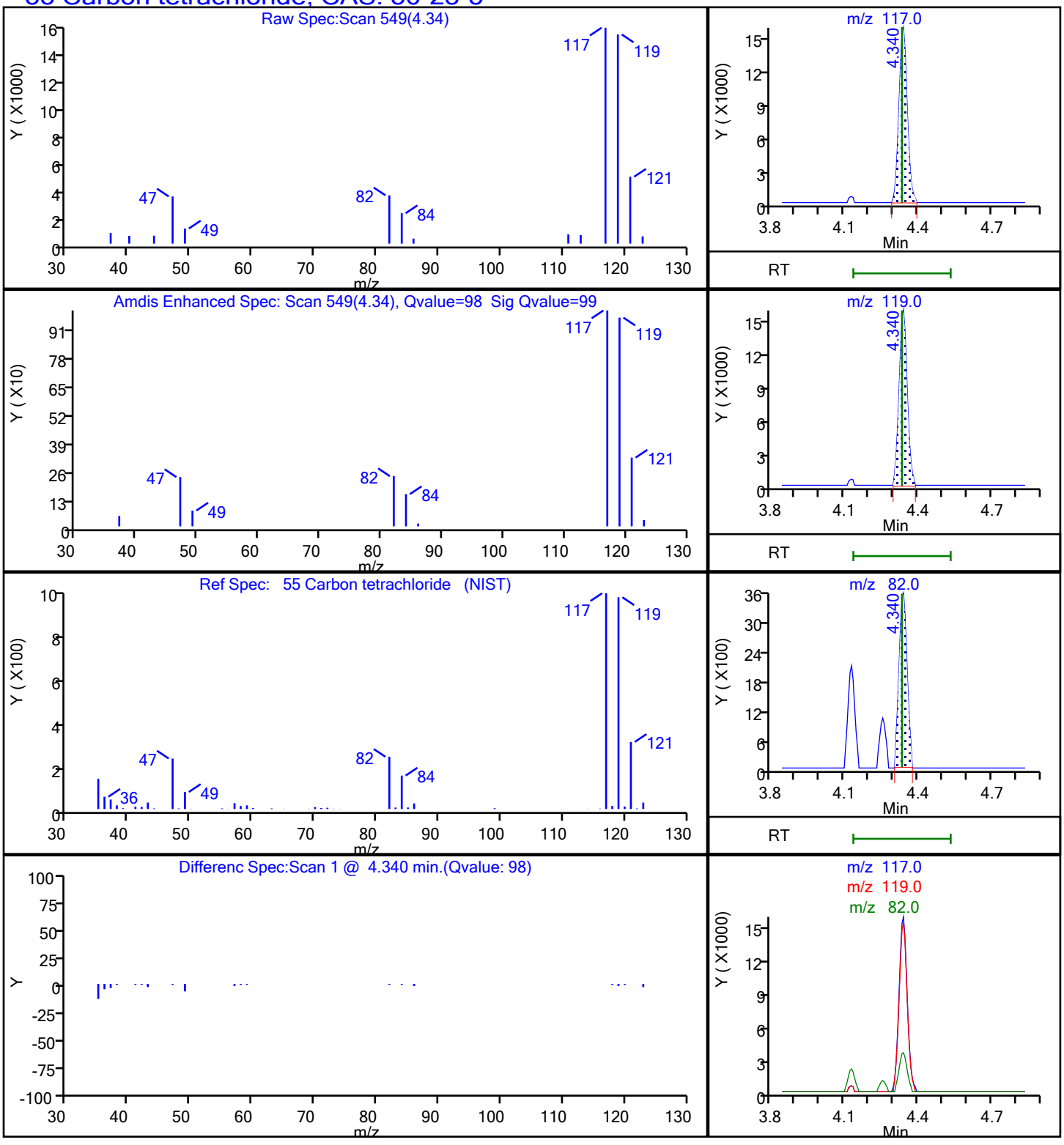
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d

Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15		
Client ID:	OW-3-102324				
Operator ID:	AK	ALS Bottle#:	21	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



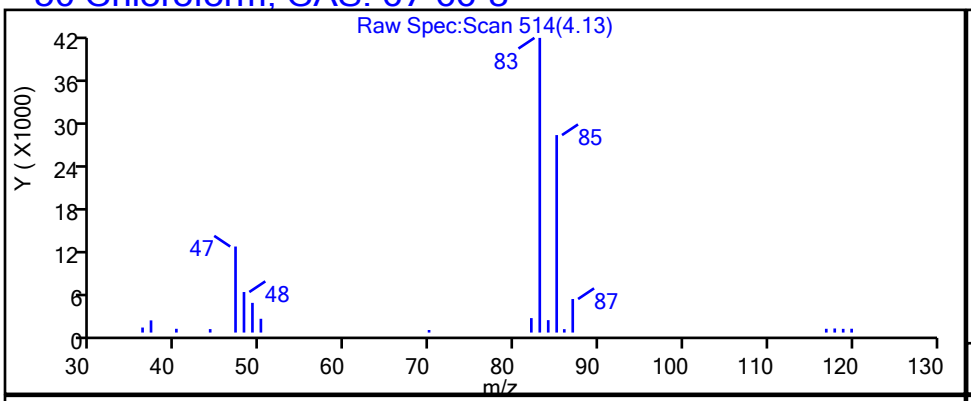
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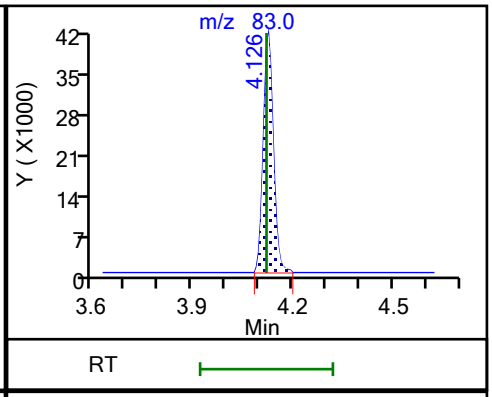
Eurofins Buffalo

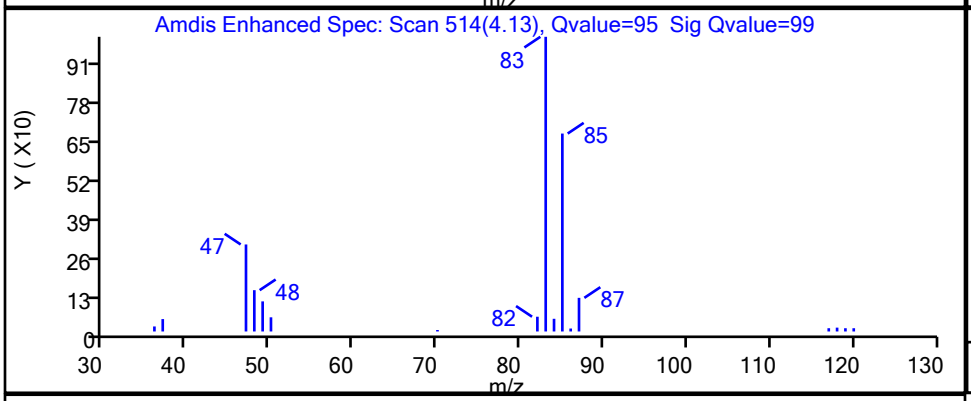
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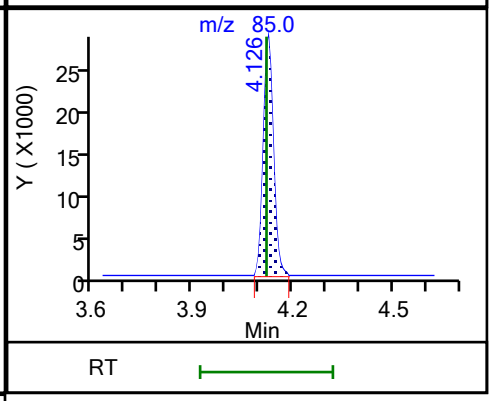
Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15		
Client ID:	OW-3-102324				
Operator ID:	AK	ALS Bottle#:	21	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

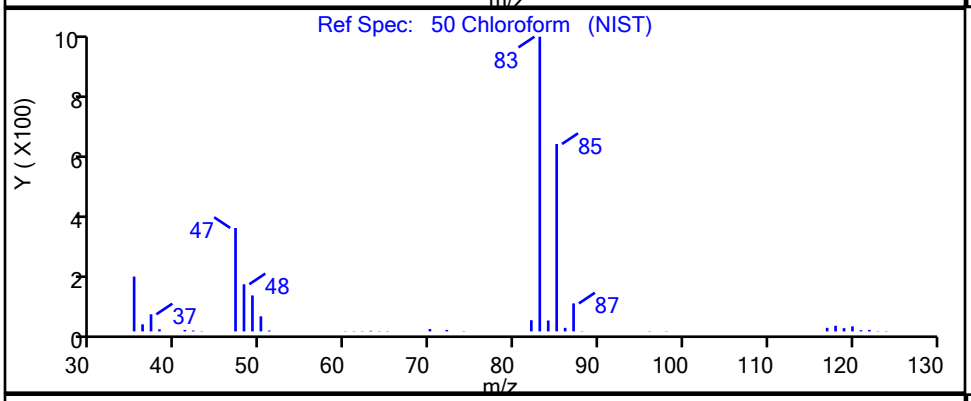
50 Chloroform, CAS: 67-66-3

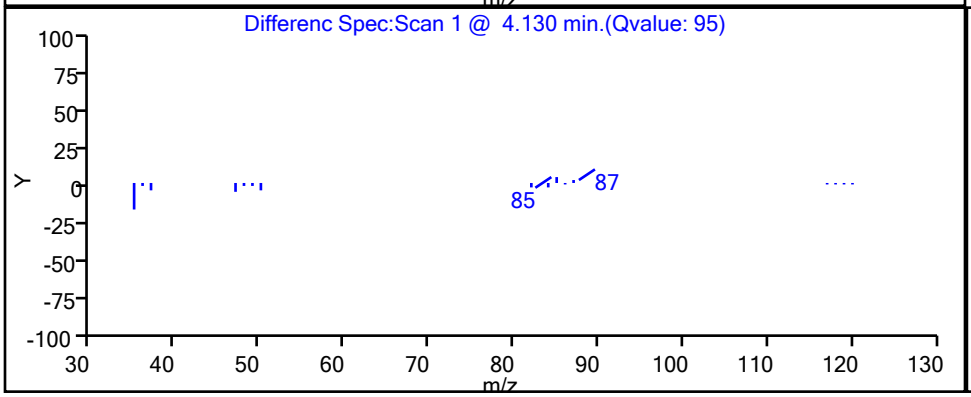


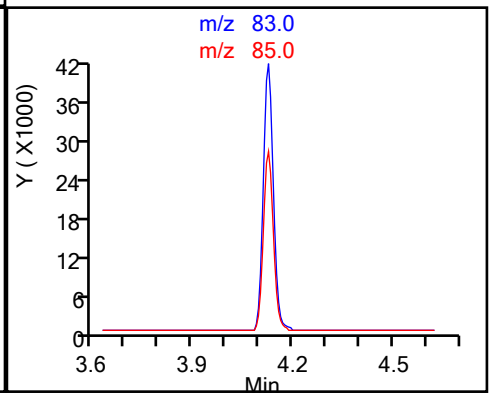












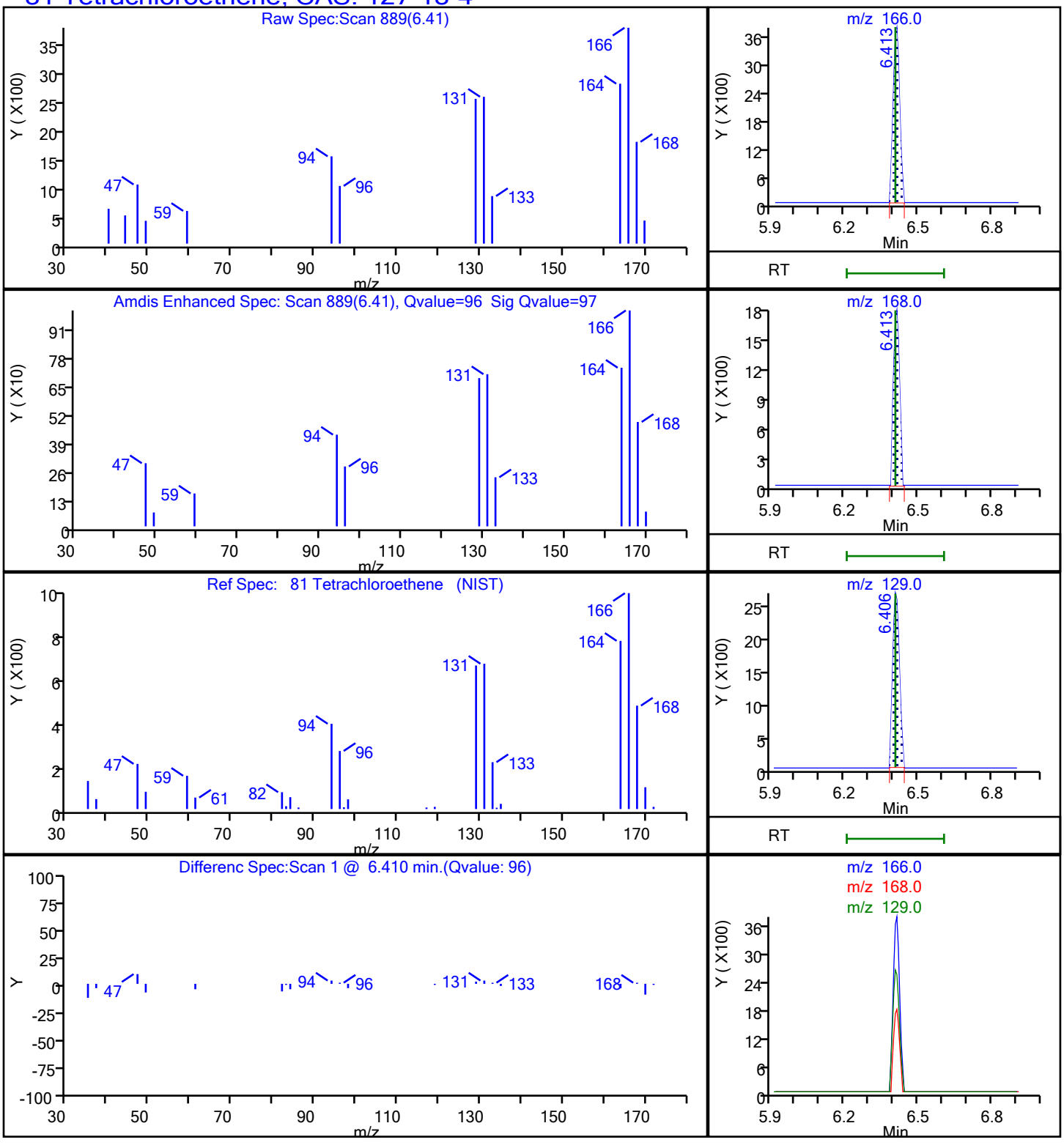
Report Date: 29-Oct-2024 13:55:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d

Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15		
Client ID:	OW-3-102324				
Operator ID:	AK	ALS Bottle#:	21	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



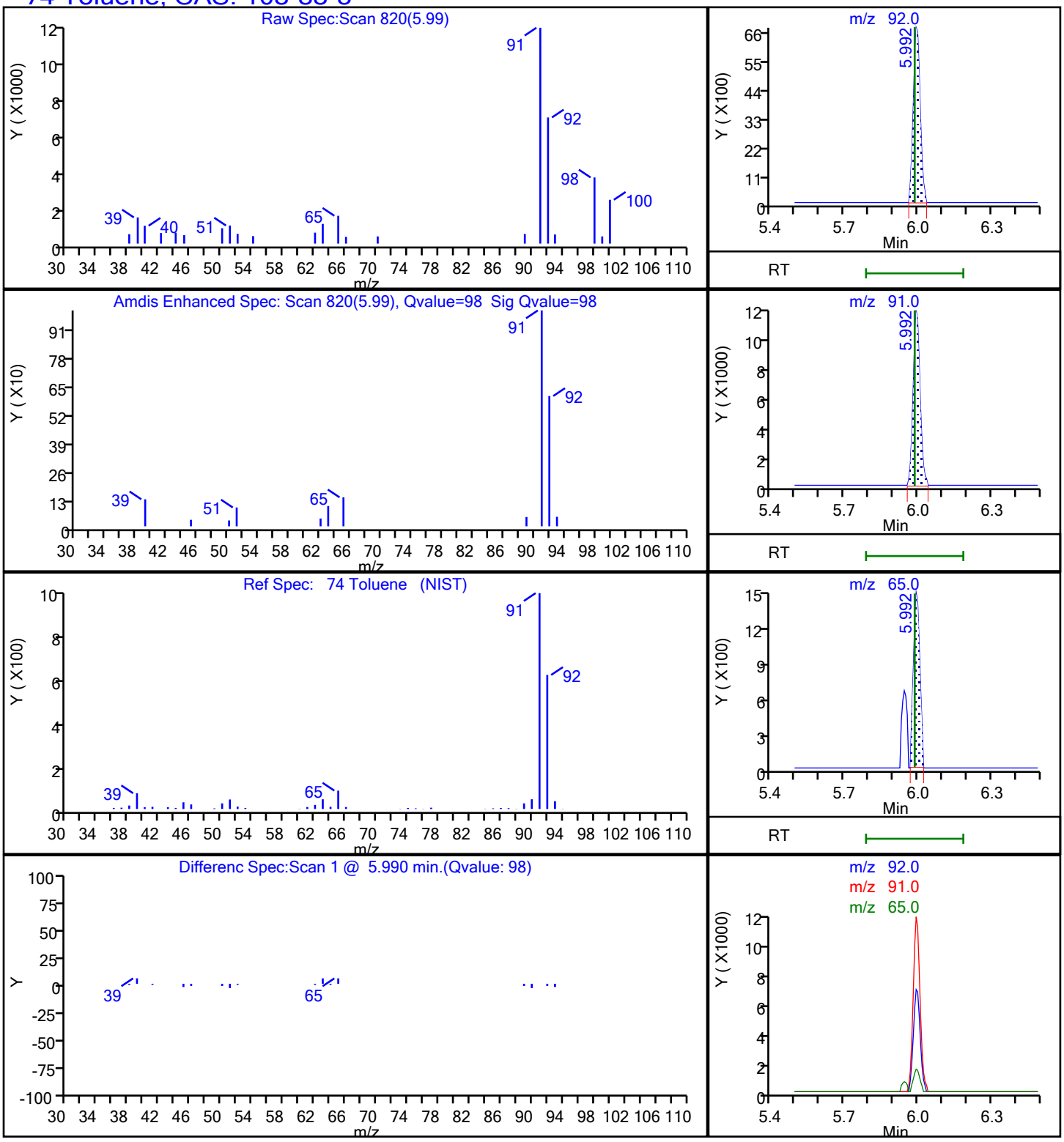
Report Date: 29-Oct-2024 13:55:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8356.d

Injection Date:	28-Oct-2024 18:57:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-15	Lab Sample ID:	480-224872-15
Client ID:	OW-3-102324		
Operator ID:	AK	ALS Bottle#:	21 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

74 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: OW-3-102324 DL | Lab Sample ID: 480-224872-15 DL

Matrix: Water | Lab File ID: D8419.d

Analysis Method: 8260C | Date Collected: 10/23/2024 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 18:37

Soil Aliquot Vol: | Dilution Factor: 2000

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	*Benzene*	*820*	*U*	*2000*	*820*
75-15-0	Carbon disulfide	120000	D	2000	380
56-23-5	*Carbon tetrachloride*	*540*	*U*	*2000*	*540*
108-90-7	*Chlorobenzene*	*1500*	*U*	*2000*	*1500*
67-66-3	*Chloroform*	*1700*	*J D*	*2000*	*680*
75-09-2	*Methylene Chloride*	*880*	*U*	*2000*	*880*
127-18-4	*Tetrachloroethene*	*720*	*U*	*2000*	*720*
108-88-3	*Toluene*	*1000*	*U*	*2000*	*1000*
79-01-6	*Trichloroethene*	*920*	*U*	*2000*	*920*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111	D	77-120
1868-53-7	Dibromofluoromethane (Surr)	112	D	75-123
2037-26-5	Toluene-d8 (Surr)	100	D	80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8419.d
Lims ID: 480-224872-B-15
Client ID: OW-3-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:37:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 2000.0000
Sample Info: 480-224872-B-15
Misc. Info.: 480-0120894-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:14:35 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 19:33:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	97910	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	204504	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	238130	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	93	176186	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	99	99082	27.8	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	495306	25.1	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	906046	61.6	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.133	4.133	0.000	94	7911	0.8446	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

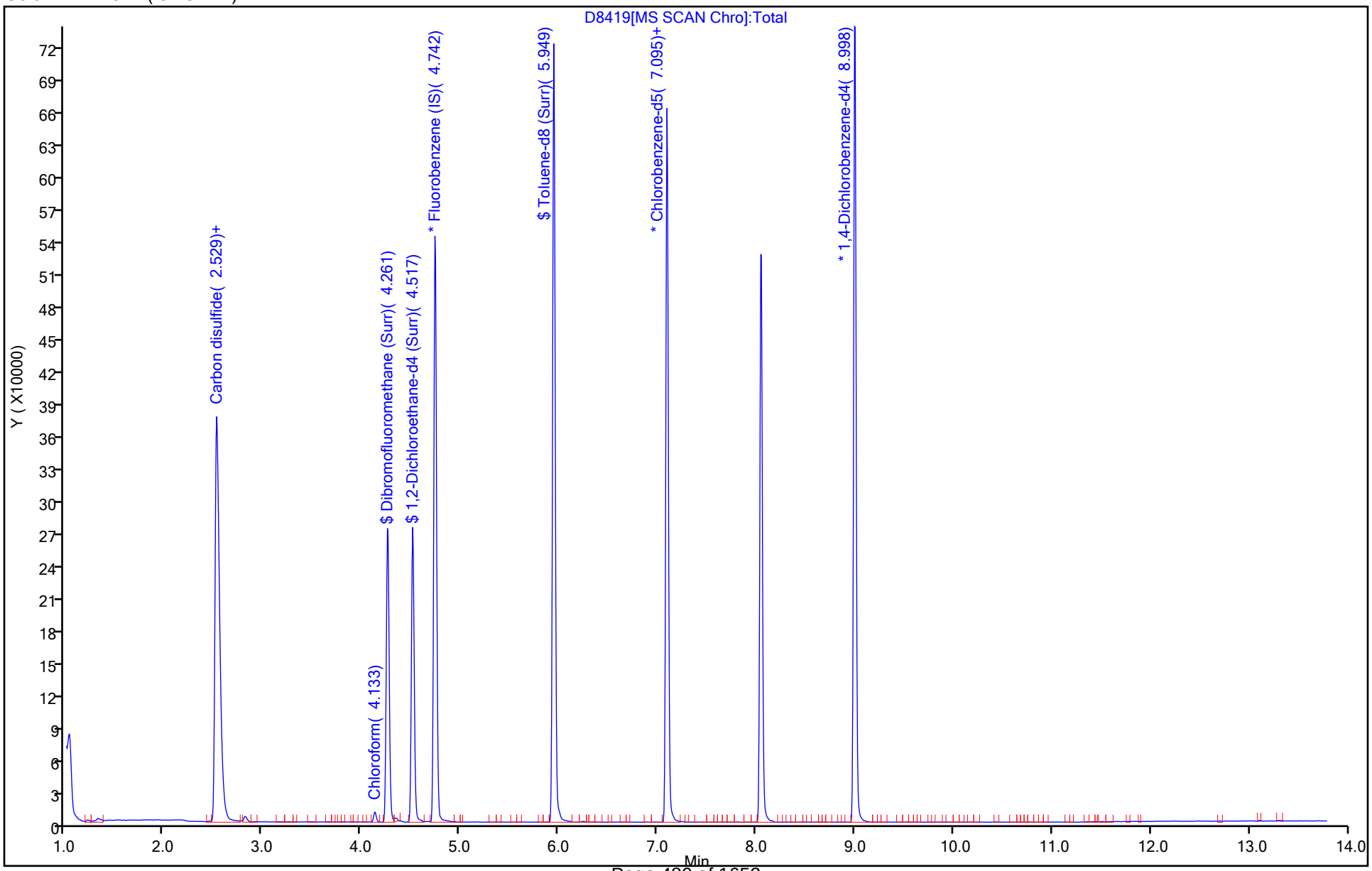
Report Date: 29-Oct-2024 19:33:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8419.d

Injection Date:	29-Oct-2024 18:37:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-15	Lab Sample ID:	480-224872-15	Worklist Smp#:	17
Client ID:	OW-3-102324				
Purge Vol:	5.000 mL	Dil. Factor:	2000.0000	ALS Bottle#:	15
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8419.d
Lims ID: 480-224872-B-15
Client ID: OW-3-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:37:30 ALS Bottle#: 15 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 2000.0000
Sample Info: 480-224872-B-15
Misc. Info.: 480-0120894-017
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:14:35 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 19:33:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	111.95
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.02
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.39

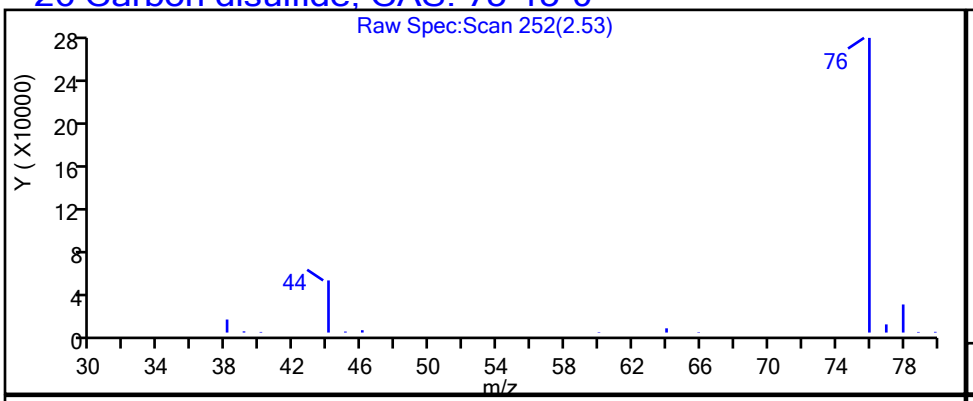
Report Date: 29-Oct-2024 19:33:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

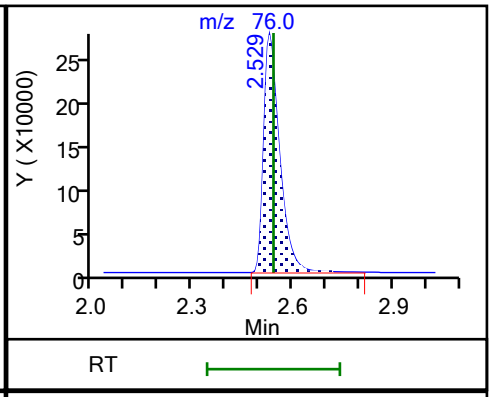
Eurofins Buffalo

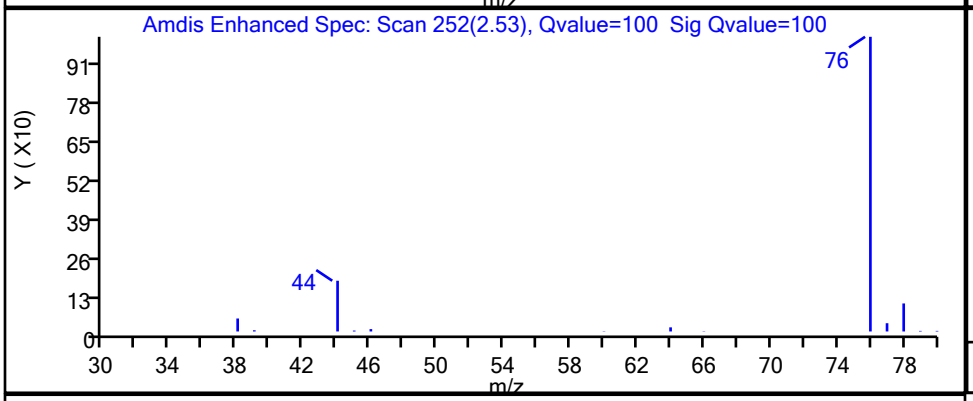
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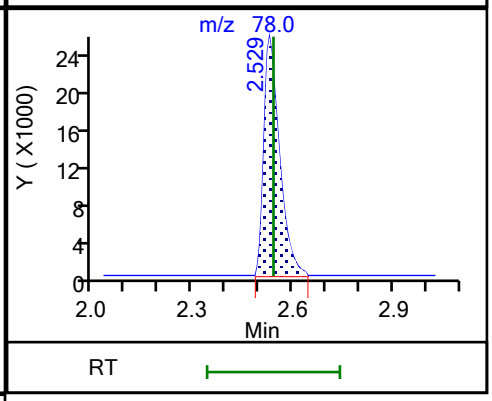
Injection Date:	29-Oct-2024 18:37:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-15	Lab Sample ID:	480-224872-15
Client ID:	OW-3-102324		
Operator ID:	AK	ALS Bottle#:	15 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	2000.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

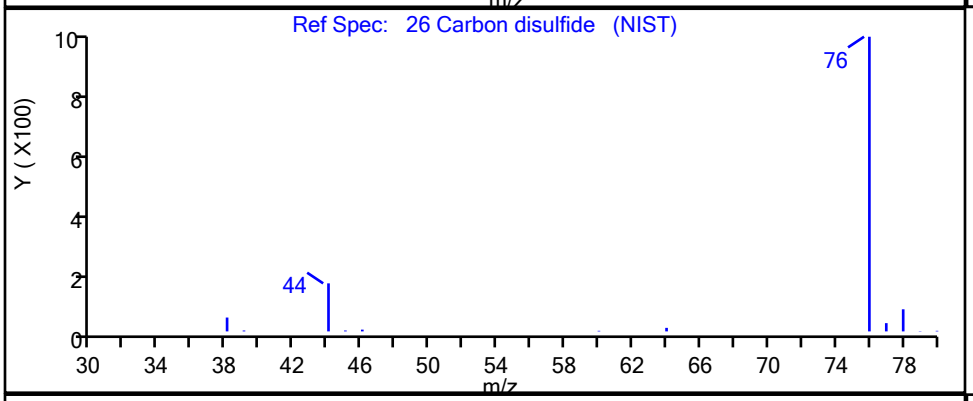
26 Carbon disulfide, CAS: 75-15-0

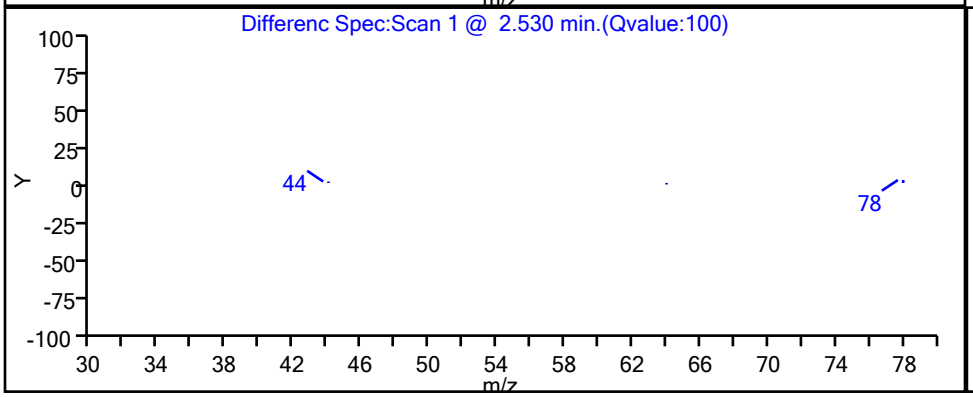


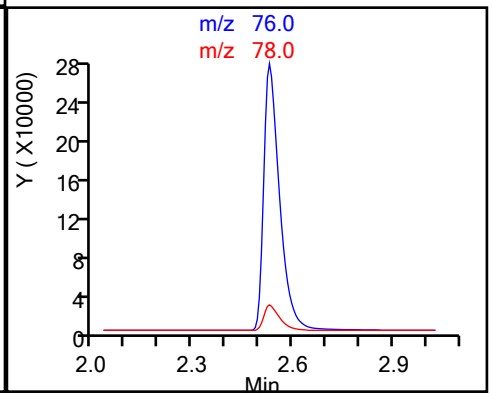












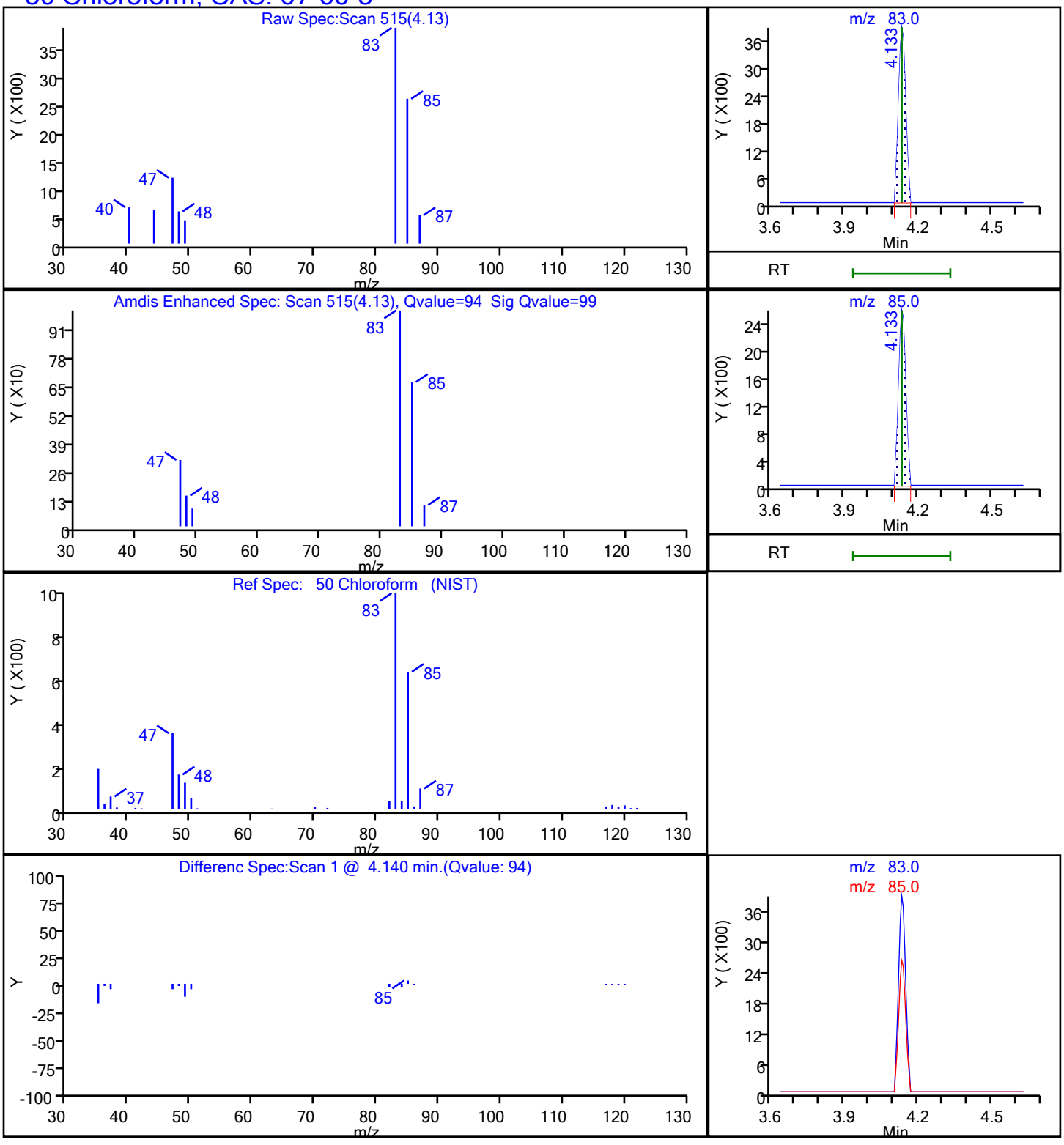
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8419.d

Injection Date:	29-Oct-2024 18:37:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-15	Lab Sample ID:	480-224872-15		
Client ID:	OW-3-102324				
Operator ID:	AK	ALS Bottle#:	15	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	2000.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: OW-5-102324 | Lab Sample ID: 480-224872-16

Matrix: Water | Lab File ID: D8420.d

Analysis Method: 8260C | Date Collected: 10/23/2024 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 18:59

Soil Aliquot Vol: | Dilution Factor: 200

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	82	U	200	82
75-15-0	Carbon disulfide	8500		200	38
56-23-5	Carbon tetrachloride	54	U	200	54
108-90-7	Chlorobenzene	150	U	200	150
67-66-3	Chloroform	68	U	200	68
75-09-2	Methylene Chloride	88	U	200	88
127-18-4	Tetrachloroethene	72	U	200	72
108-88-3	Toluene	100	U	200	100
79-01-6	Trichloroethene	92	U	200	92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8420.d
Lims ID: 480-224872-B-16
Client ID: OW-5-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:59:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-B-16
Misc. Info.: 480-0120894-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	95939	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	197403	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	233125	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.260	0.000	93	176734	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	95905	27.4	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	475536	25.0	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	613818	42.6	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.133	4.133	0.000	80	1421	0.1548	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

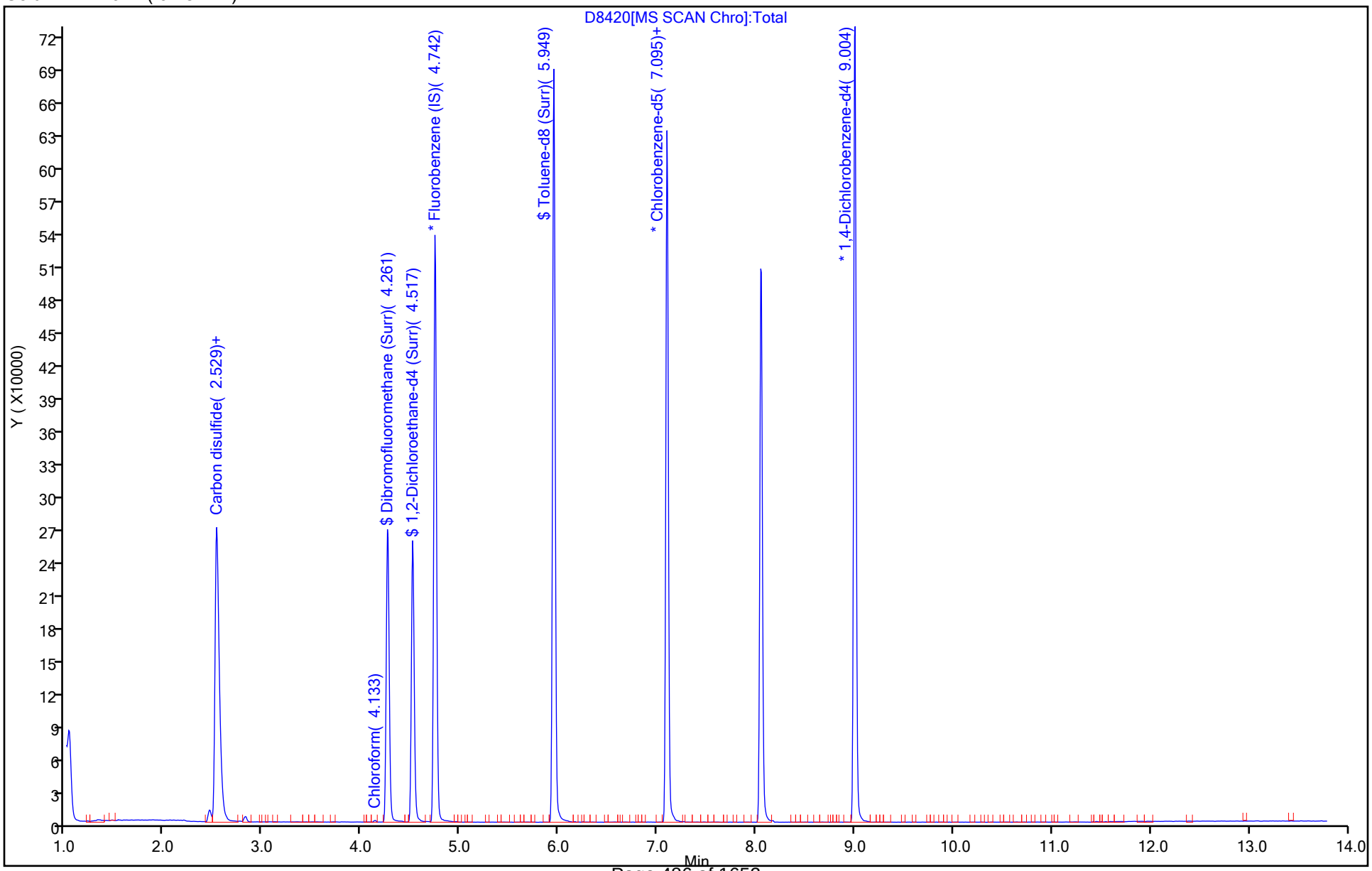
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8420.d

Injection Date:	29-Oct-2024 18:59:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-16	Lab Sample ID:	480-224872-16	Worklist Smp#:	18
Client ID:	OW-5-102324				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	16
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8420.d
Lims ID: 480-224872-B-16
Client ID: OW-5-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 18:59:30 ALS Bottle#: 16 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-B-16
Misc. Info.: 480-0120894-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.61
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.4	109.66
$ 5 Toluene-d8 (Surr)	25.0	25.0	99.85

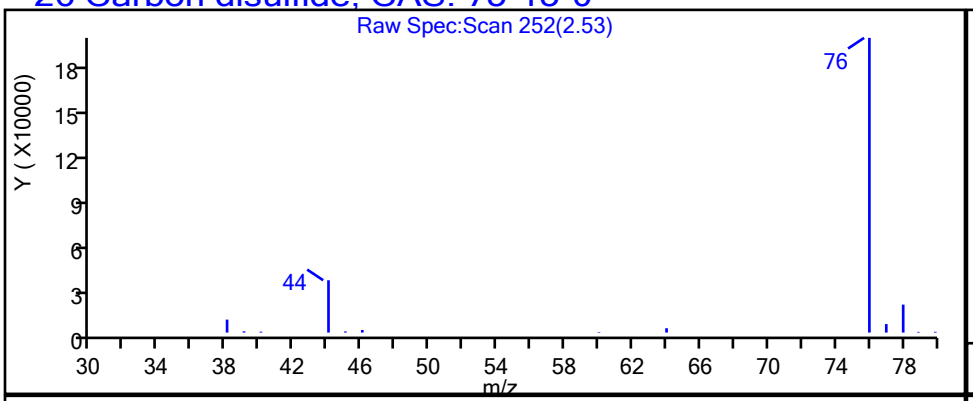
Report Date: 29-Oct-2024 20:09:10 Chrom Revision: 2.3 24-Sep-2024 15:19:46

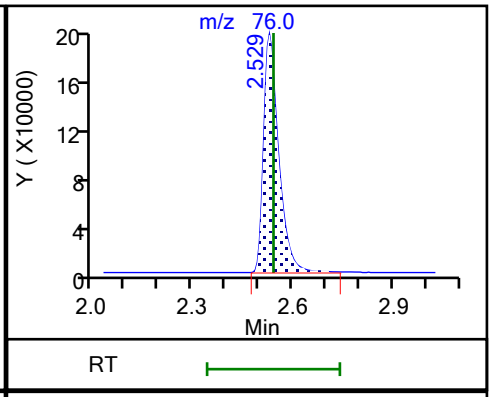
Eurofins Buffalo

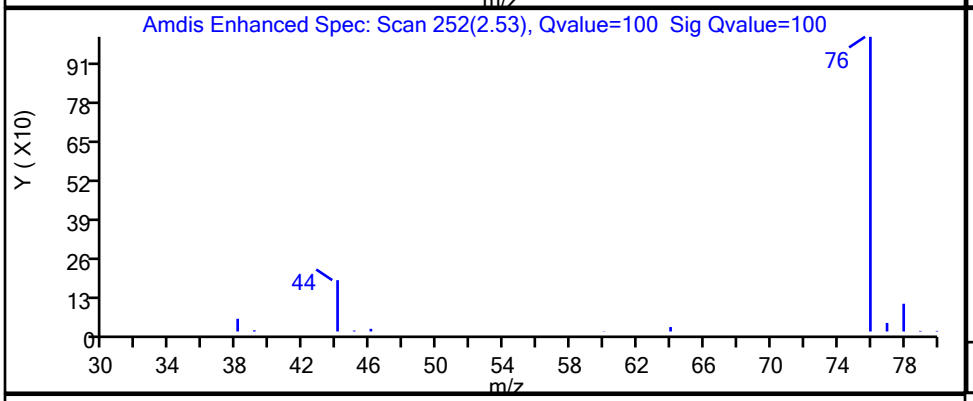
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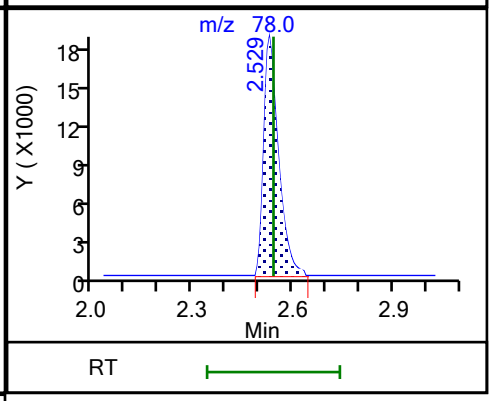
Injection Date:	29-Oct-2024 18:59:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-16	Lab Sample ID:	480-224872-16
Client ID:	OW-5-102324		
Operator ID:	AK	ALS Bottle#:	16 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

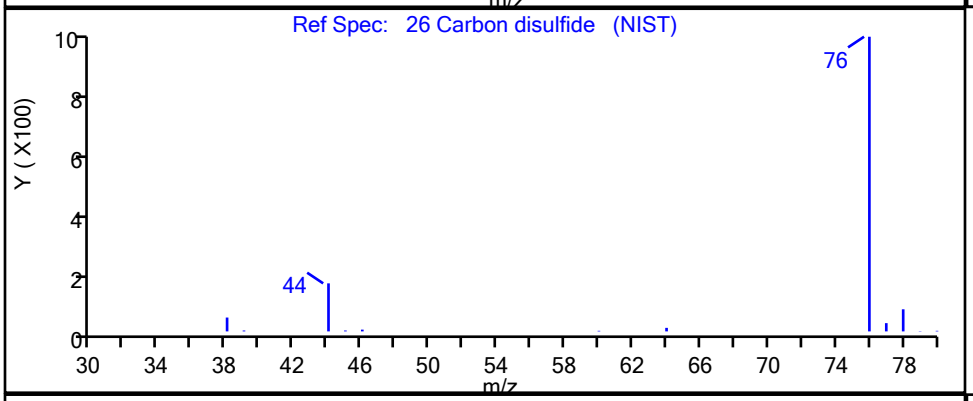
26 Carbon disulfide, CAS: 75-15-0

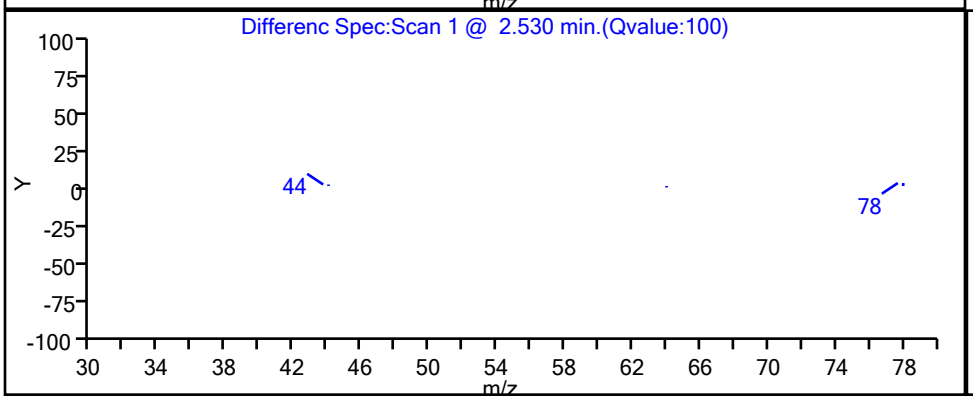


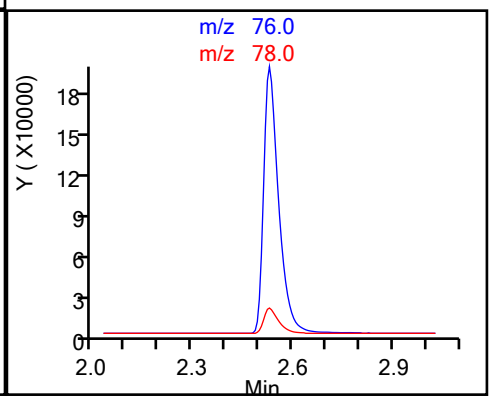












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-67L-102324 | Lab Sample ID: 480-224872-17

Matrix: Water | Lab File ID: D8421.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:06

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 19:21

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	10		1.0	0.19
56-23-5	Carbon tetrachloride	0.88	J	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	6.7		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	3.0		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	5.2		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d
Lims ID: 480-224872-B-17
Client ID: W-67L-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 19:21:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-17
Misc. Info.: 480-0120894-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	95259	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	86	190480	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	231506	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.260	0.000	92	175111	28.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	99705	28.7	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	467868	25.5	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	147900	10.3	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.133	4.133	0.000	95	60854	6.68	
55 Carbon tetrachloride	117	4.346	4.346	0.000	96	5828	0.8832	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95	5.023	5.023	0.000	96	25346	5.21	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.412	0.006	93	15271	3.01	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

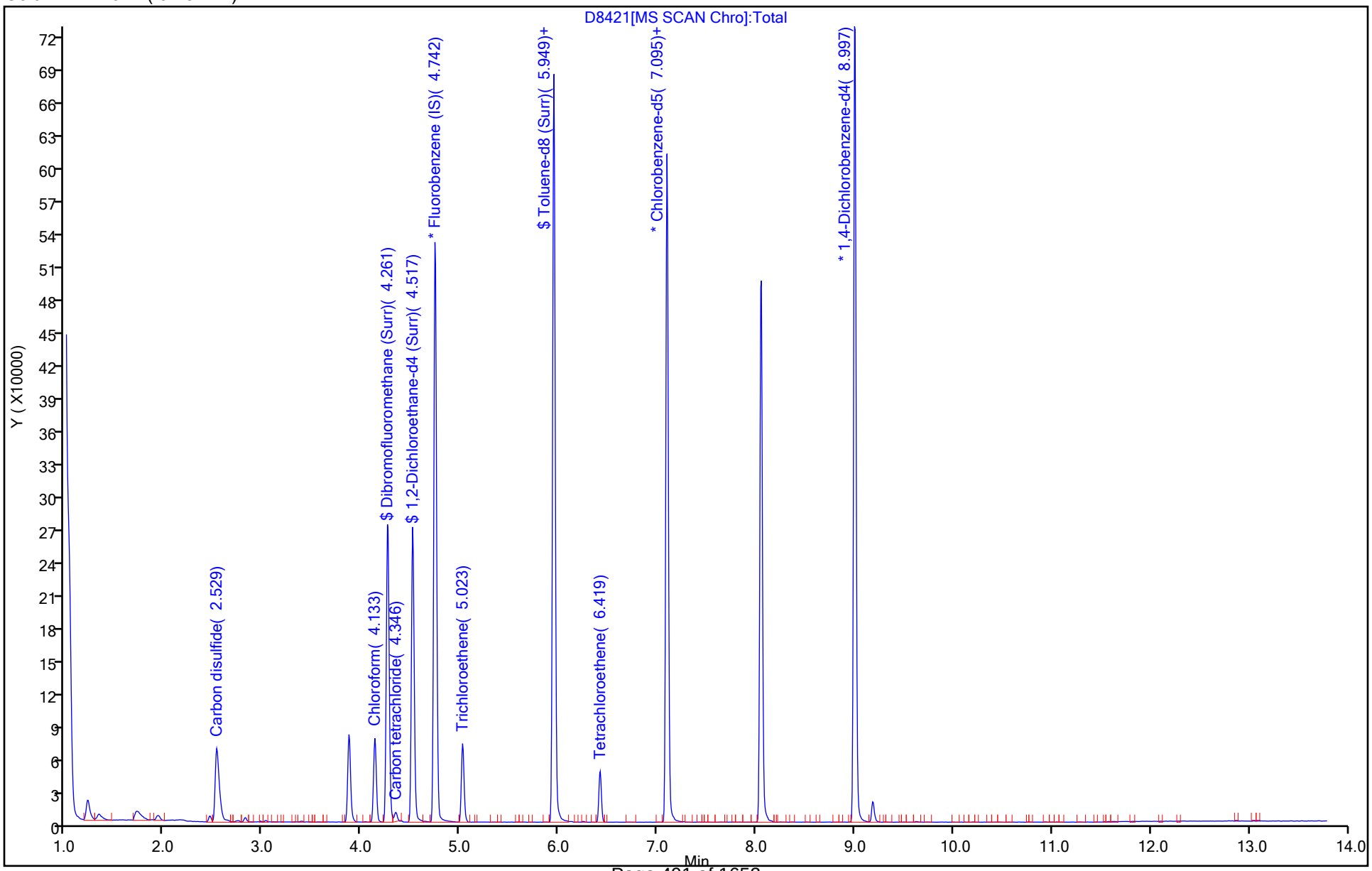
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d

Injection Date:	29-Oct-2024 19:21:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-17	Lab Sample ID:	480-224872-17	Worklist Smp#:	19
Client ID:	W-67L-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d
Lims ID: 480-224872-B-17
Client ID: W-67L-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 19:21:30 ALS Bottle#: 17 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-17
Misc. Info.: 480-0120894-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.6	114.37
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.7	114.82
$ 5 Toluene-d8 (Surr)	25.0	25.5	101.81

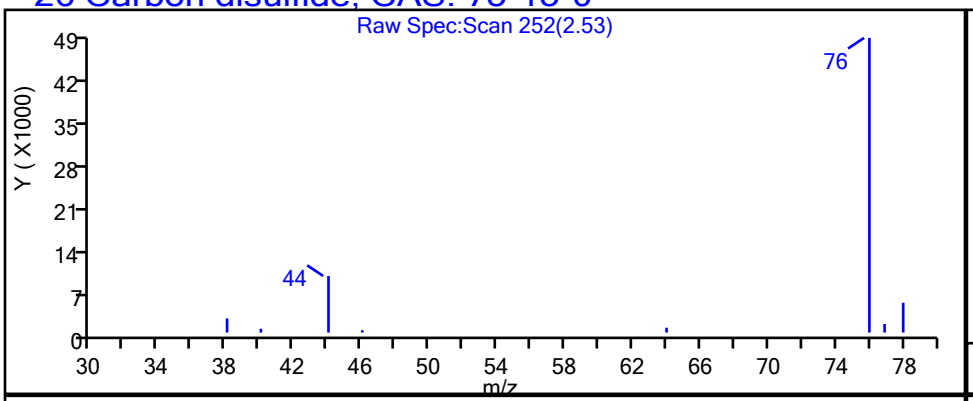
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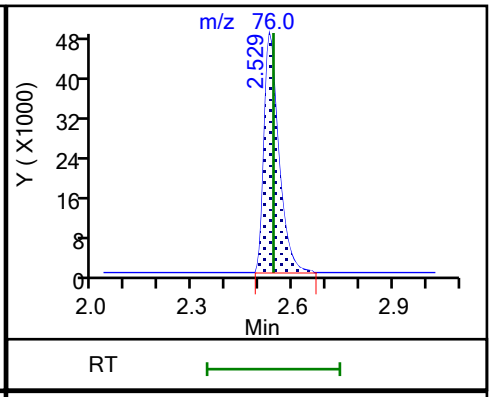
Eurofins Buffalo

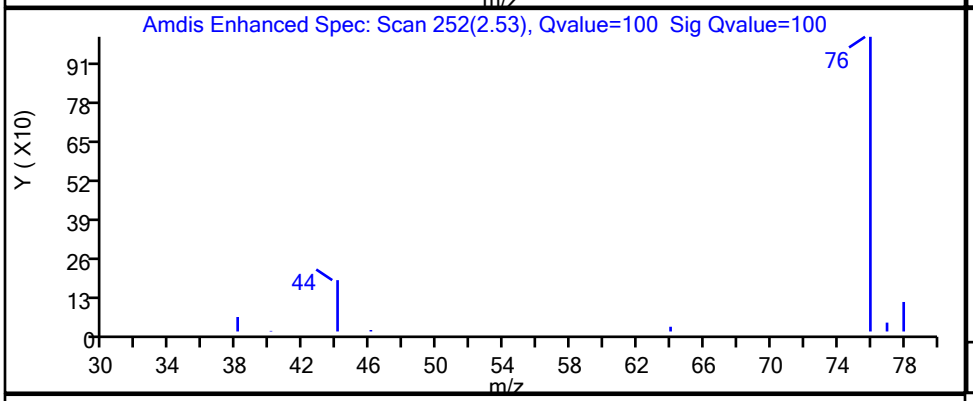
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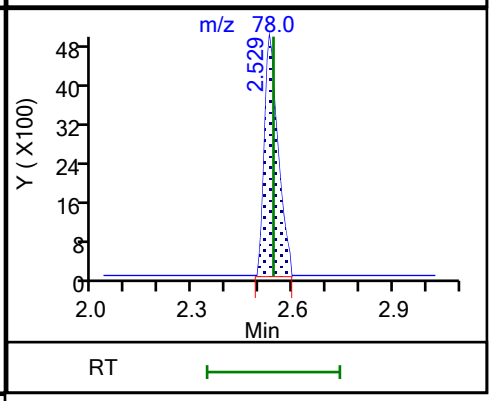
Injection Date:	29-Oct-2024 19:21:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-17	Lab Sample ID:	480-224872-17		
Client ID:	W-67L-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

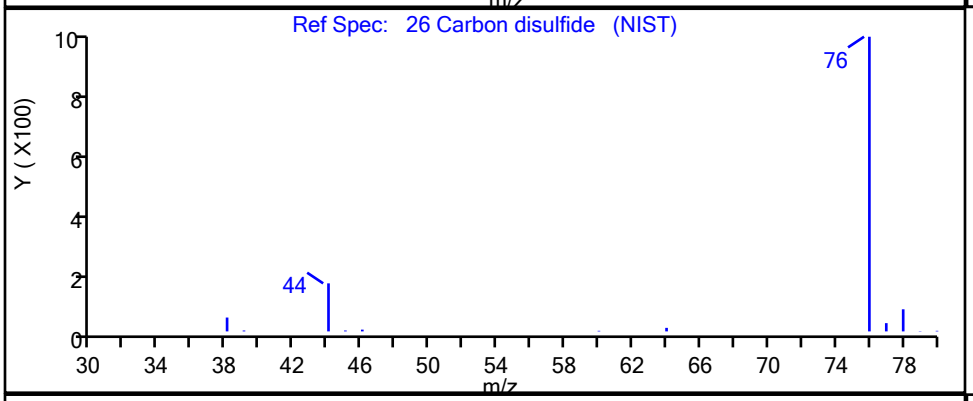
26 Carbon disulfide, CAS: 75-15-0

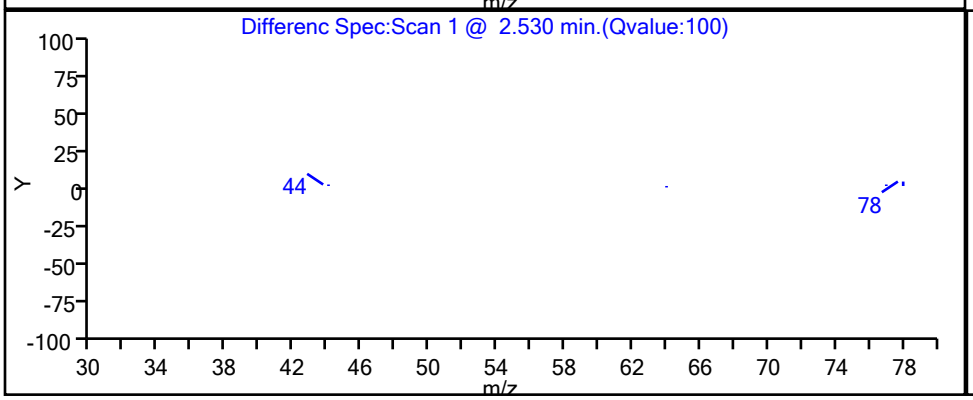


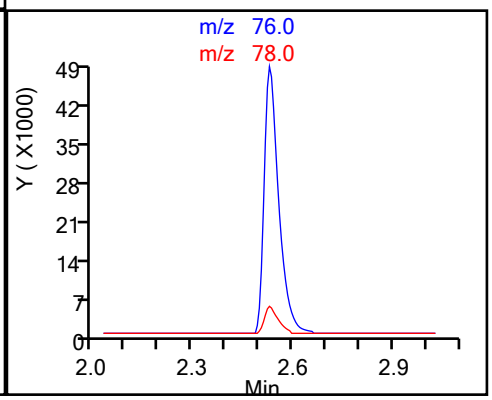












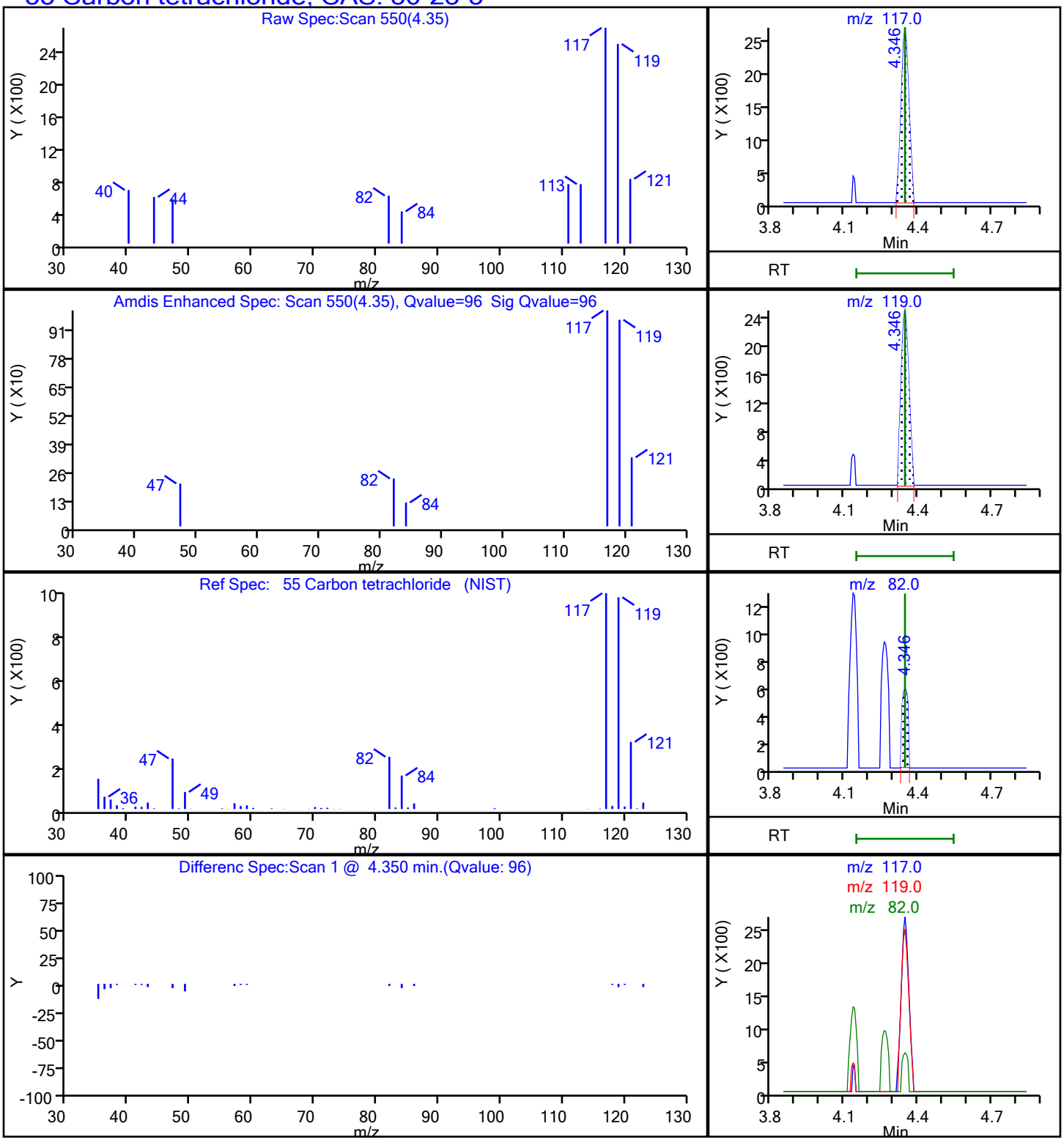
Report Date: 29-Oct-2024 20:09:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d

Injection Date:	29-Oct-2024 19:21:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-17	Lab Sample ID:	480-224872-17		
Client ID:	W-67L-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



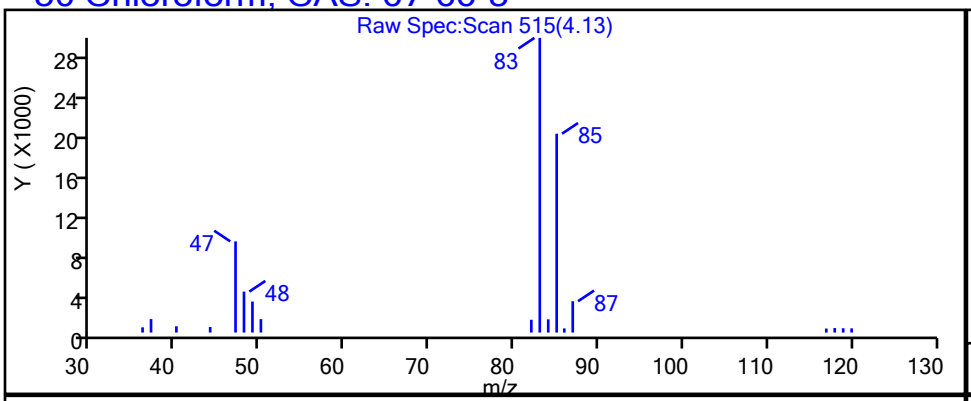
Report Date: 29-Oct-2024 20:09:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

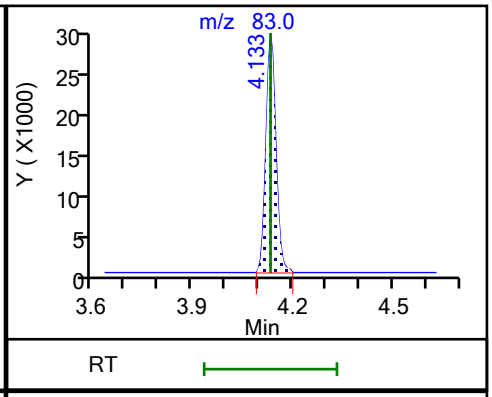
Eurofins Buffalo

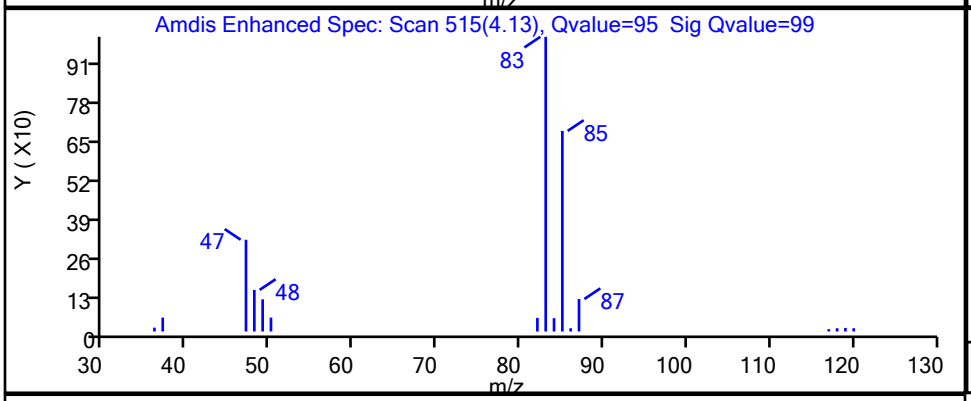
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d

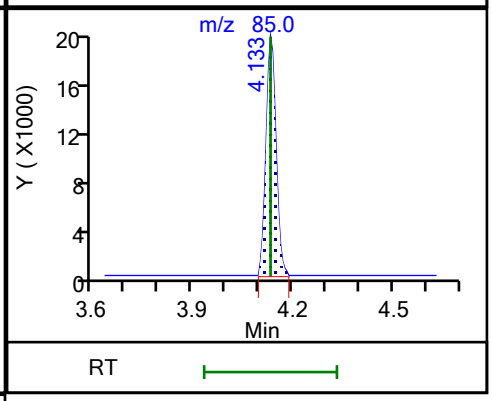
Injection Date:	29-Oct-2024 19:21:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-17	Lab Sample ID:	480-224872-17		
Client ID:	W-67L-102324				
Operator ID:	AK	ALS Bottle#:	17	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

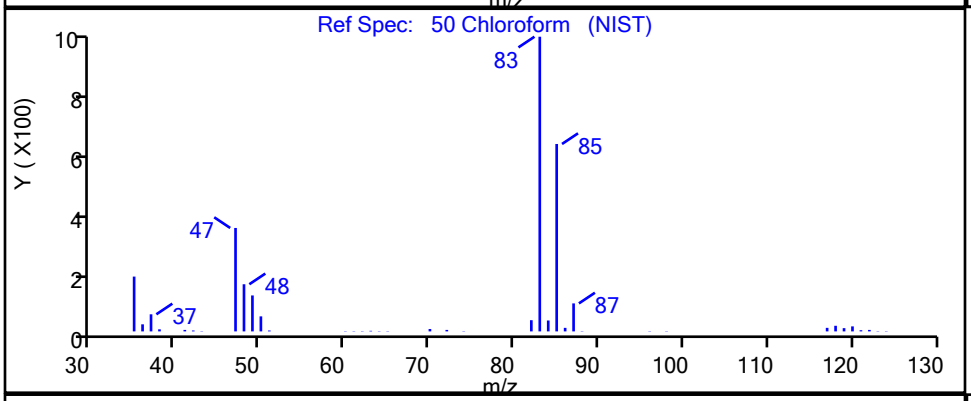
50 Chloroform, CAS: 67-66-3

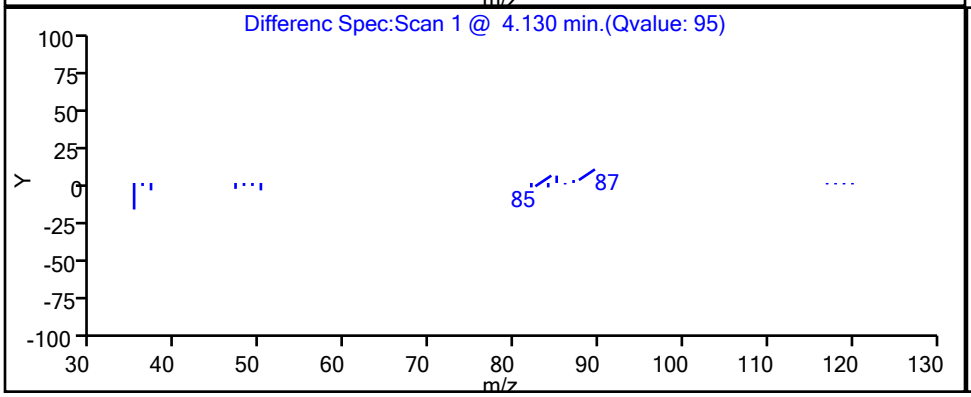


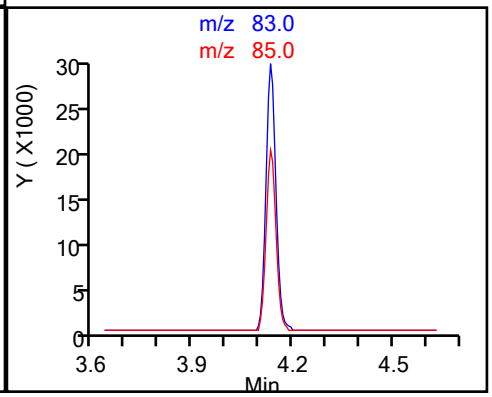












Report Date: 29-Oct-2024 20:09:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d

Injection Date: 29-Oct-2024 19:21:30 Instrument ID: HP5975D

Lims ID: 480-224872-B-17 Lab Sample ID: 480-224872-17

Client ID: W-67L-102324

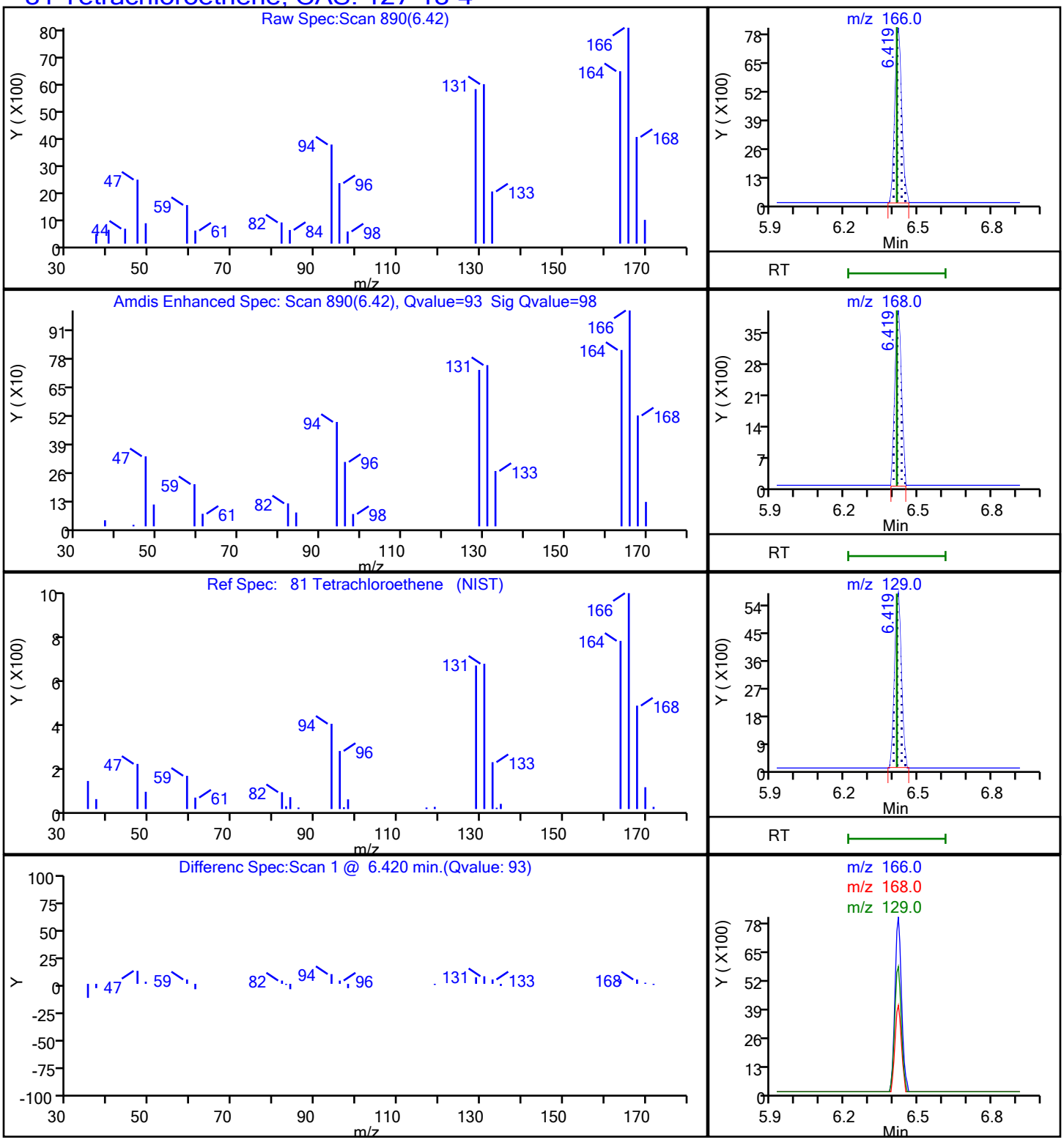
Operator ID: AK ALS Bottle#: 17 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: D-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm) Detector MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



Report Date: 29-Oct-2024 20:09:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8421.d

Injection Date: 29-Oct-2024 19:21:30 Instrument ID: HP5975D

Lims ID: 480-224872-B-17 Lab Sample ID: 480-224872-17

Client ID: W-67L-102324

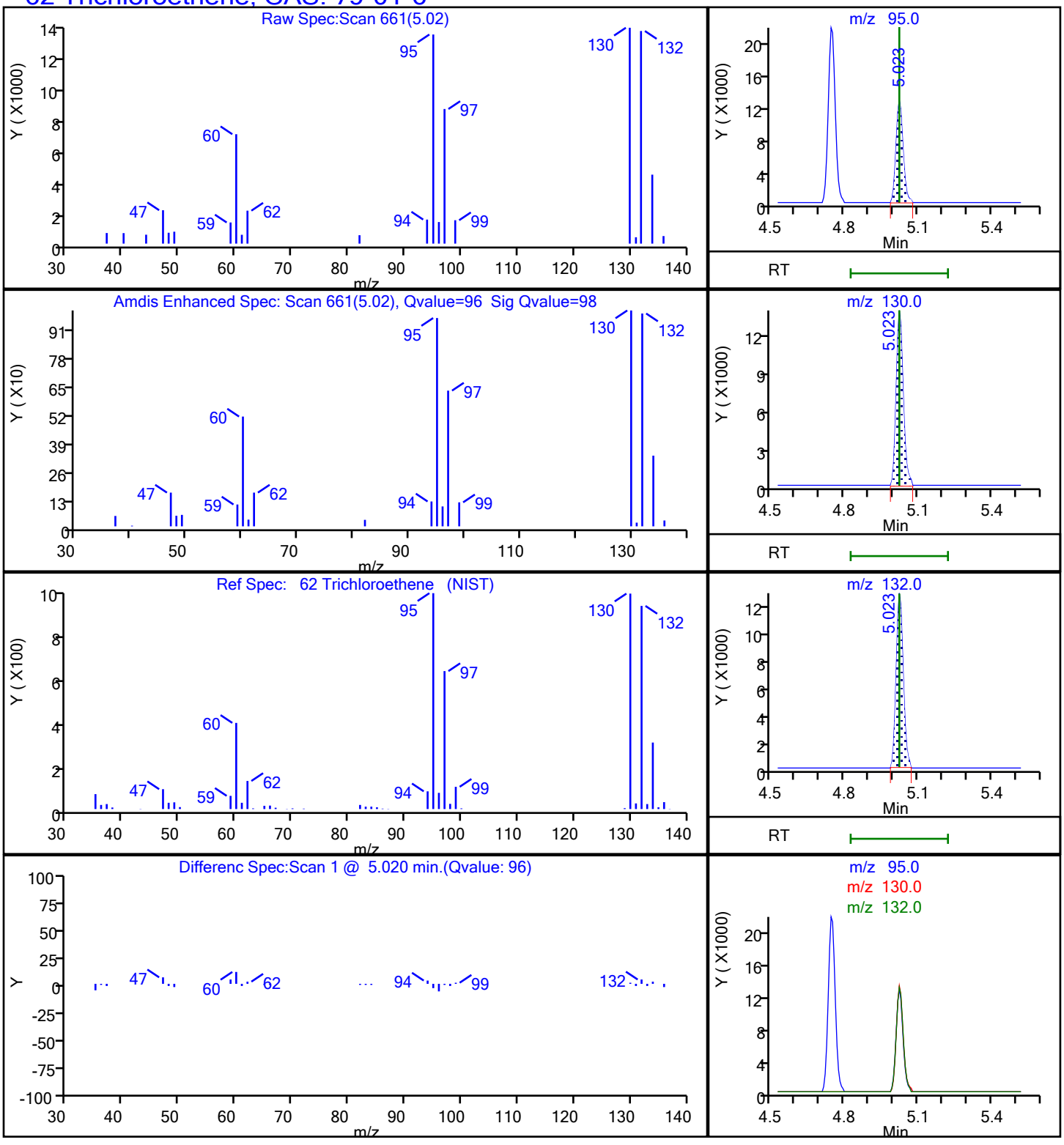
Operator ID: AK ALS Bottle#: 17 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: D-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm) Detector MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-67-102324 | Lab Sample ID: 480-224872-18

Matrix: Water | Lab File ID: D8359.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:14

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 20:03

Soil Aliquot Vol: | Dilution Factor: 1000

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	410	U	1000	410
75-15-0	Carbon disulfide	60000		1000	190
56-23-5	Carbon tetrachloride	270	U	1000	270
108-90-7	Chlorobenzene	750	U	1000	750
67-66-3	Chloroform	340	U	1000	340
75-09-2	Methylene Chloride	440	U	1000	440
127-18-4	Tetrachloroethene	360	U	1000	360
108-88-3	Toluene	510	U	1000	510
79-01-6	Trichloroethene	460	U	1000	460

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8359.d
Lims ID: 480-224872-A-18
Client ID: R-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:03:30 ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1000.0000
Sample Info: 480-224872-A-18
Misc. Info.: 480-0120860-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:56:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	94744	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	190407	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	226040	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	92	176717	29.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	98	96880	28.0	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	465013	25.3	
26 Carbon disulfide	76	2.523	2.511	0.012	100	853759	60.0	
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	82	1679	0.1852	
55 Carbon tetrachloride	117		4.334				ND	
57 Benzene	78	4.517	4.511	0.006	87	2966	0.1754	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166		6.407				ND	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

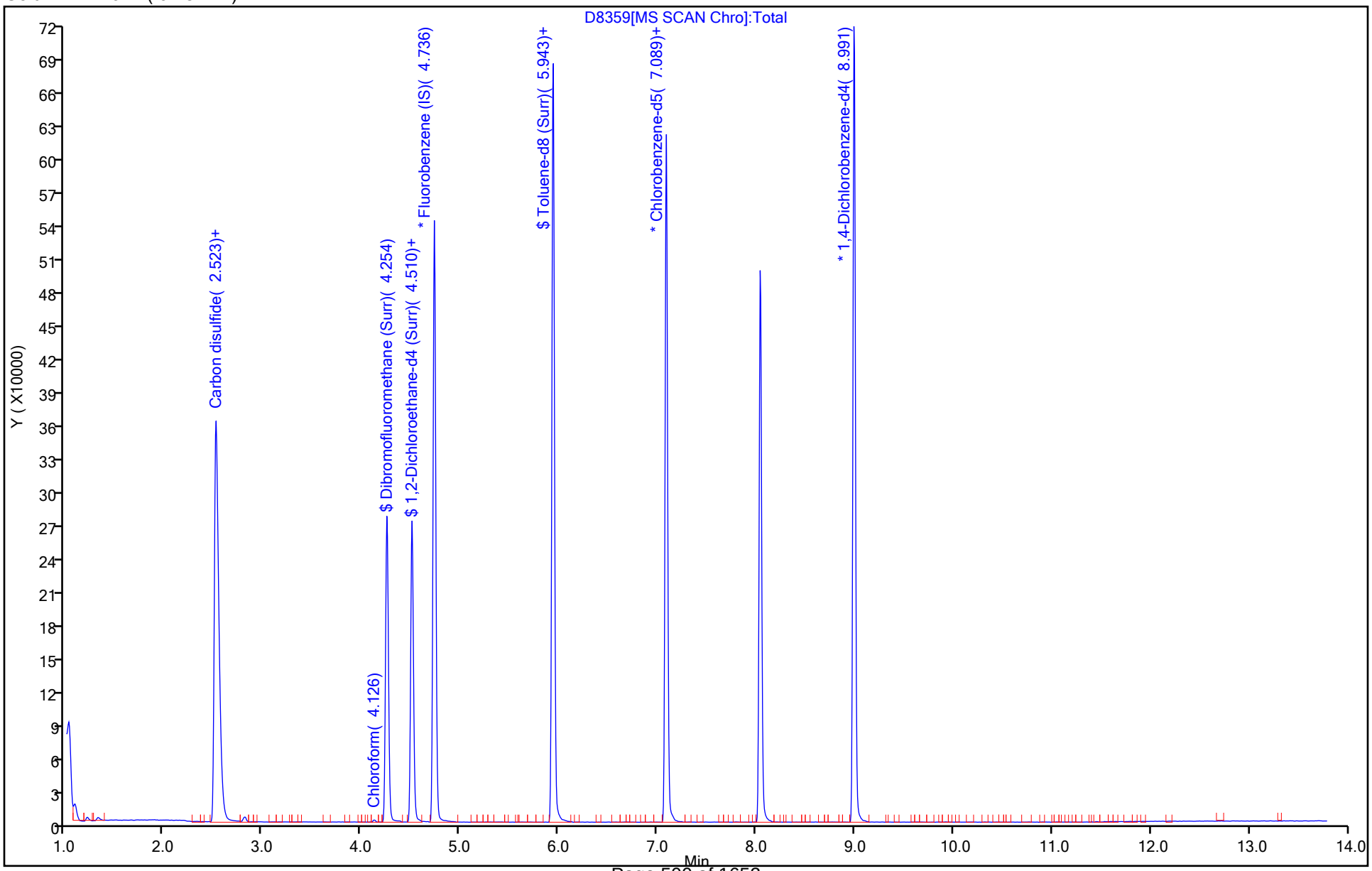
Report Date: 29-Oct-2024 13:56:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8359.d

Injection Date:	28-Oct-2024 20:03:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-18	Lab Sample ID:	480-224872-18	Worklist Smp#:	26
Client ID:	R-67-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000	ALS Bottle#:	24
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8359.d
Lims ID: 480-224872-A-18
Client ID: R-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:03:30 ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1000.0000
Sample Info: 480-224872-A-18
Misc. Info.: 480-0120860-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:51:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:56:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.0	116.04
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.0	112.18
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.23

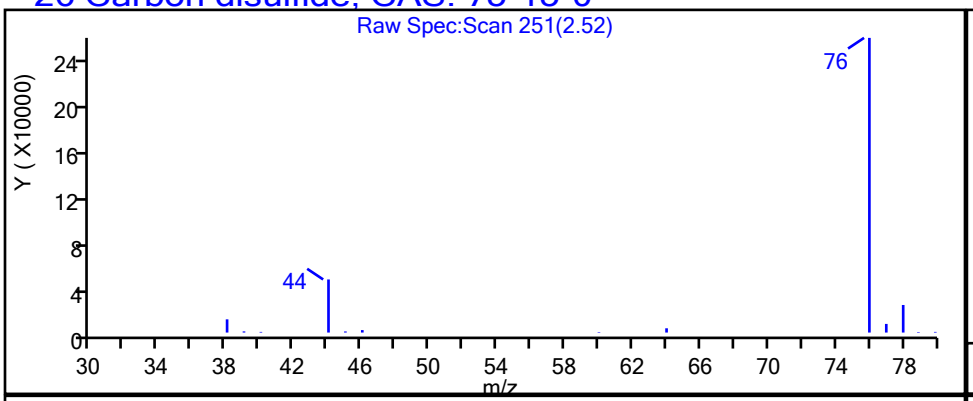
Report Date: 29-Oct-2024 13:56:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

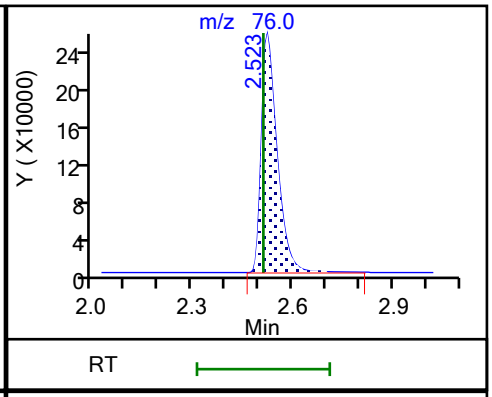
Eurofins Buffalo

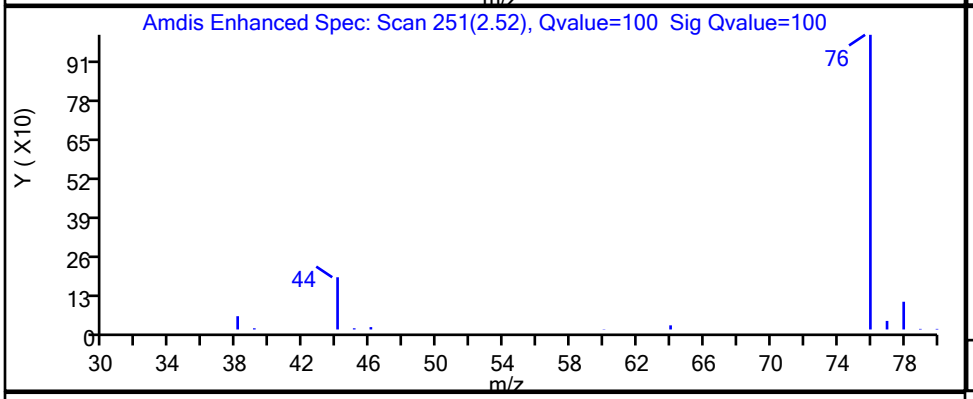
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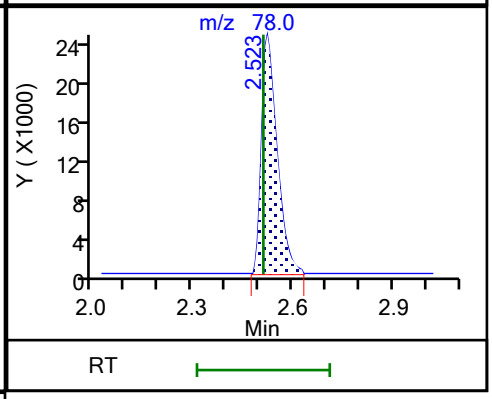
Injection Date:	28-Oct-2024 20:03:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-18	Lab Sample ID:	480-224872-18
Client ID:	R-67-102324		
Operator ID:	AK	ALS Bottle#:	24 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1000.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

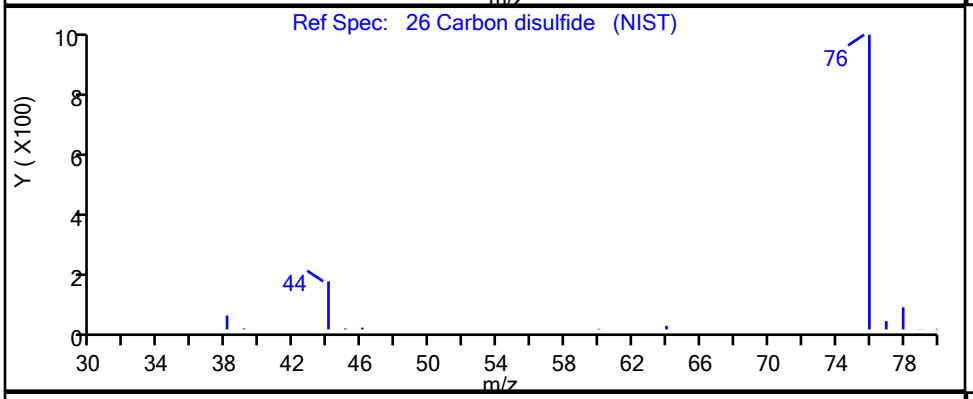
26 Carbon disulfide, CAS: 75-15-0

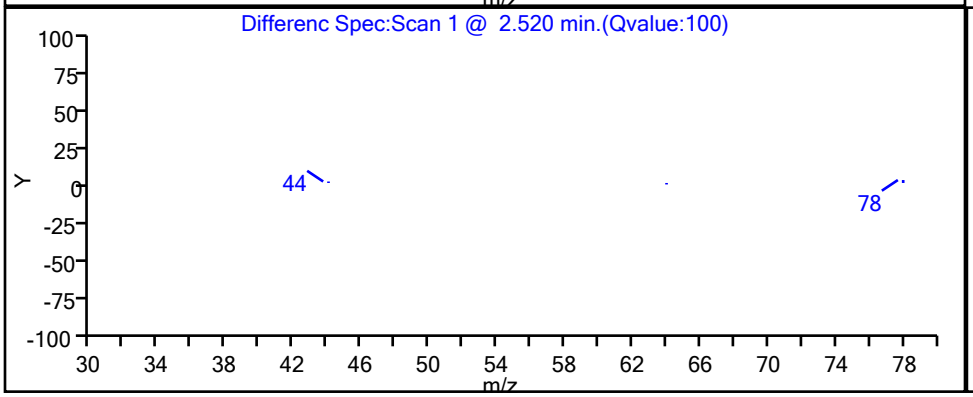


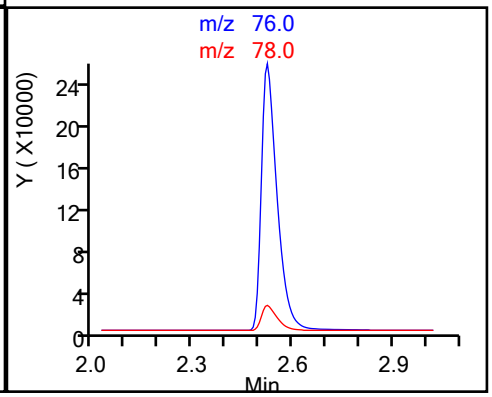












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-67-102324 | Lab Sample ID: 480-224872-19

Matrix: Water | Lab File ID: D8360.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:23

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 20:25

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	16	U	40	16
75-15-0	Carbon disulfide	7.6	U	40	7.6
56-23-5	Carbon tetrachloride	1300		40	11
108-90-7	Chlorobenzene	30	U	40	30
67-66-3	Chloroform	1300		40	14
75-09-2	Methylene Chloride	46		40	18
127-18-4	Tetrachloroethene	79		40	14
108-88-3	Toluene	20	U	40	20
79-01-6	Trichloroethene	210		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d
Lims ID: 480-224872-A-19
Client ID: W-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:25:30 ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-19
Misc. Info.: 480-0120860-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:57:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:57:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	94259	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	203946	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.991	0.006	95	234736	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.006	93	175718	29.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	97855	28.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	500917	25.5	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84	2.810	2.804	0.006	95	9406	1.16	
50 Chloroform	83	4.126	4.120	0.006	94	298022	33.1	
55 Carbon tetrachloride	117	4.340	4.334	0.006	97	219789	33.7	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	95	25657	5.33	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.413	6.412	0.007	95	10733	1.98	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

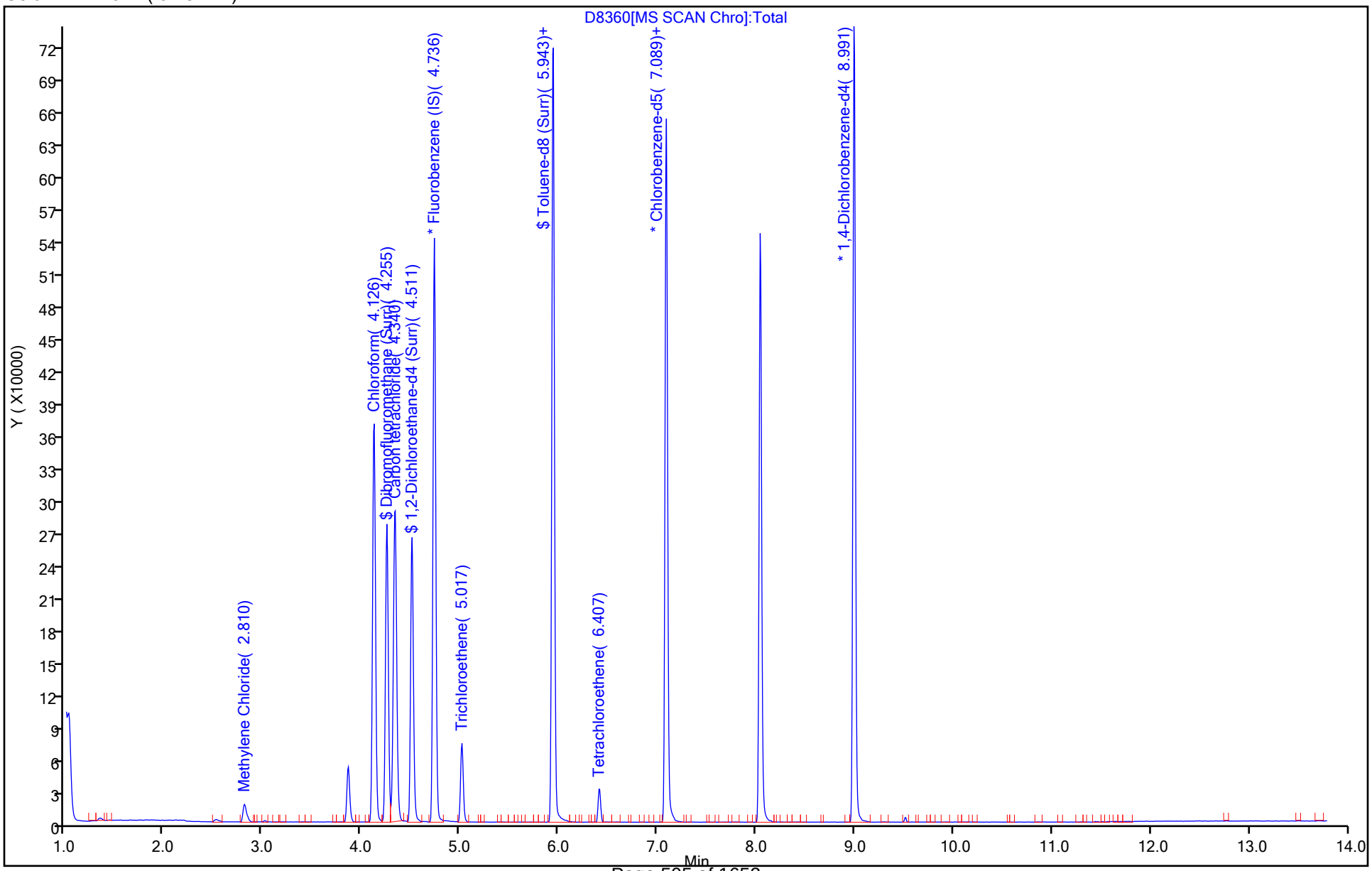
Report Date: 29-Oct-2024 13:57:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d

Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19	Worklist Smp#:	27
Client ID:	W-67-102324				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	25
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d
Lims ID: 480-224872-A-19
Client ID: W-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:25:30 ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-19
Misc. Info.: 480-0120860-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:57:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:57:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.0	115.98
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	113.89
$ 5 Toluene-d8 (Surr)	25.0	25.5	101.80

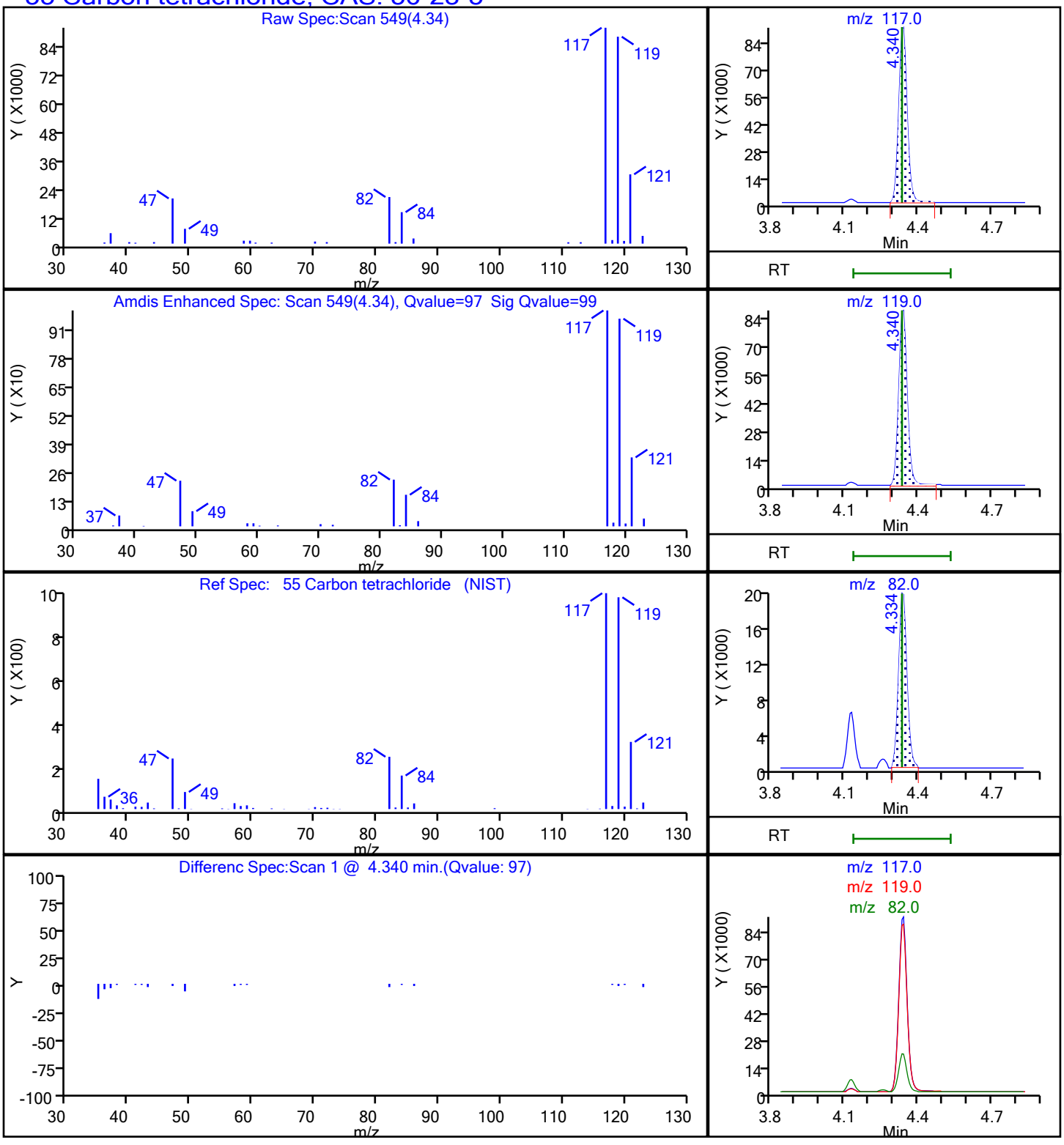
Report Date: 29-Oct-2024 13:57:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d

Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19		
Client ID:	W-67-102324				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



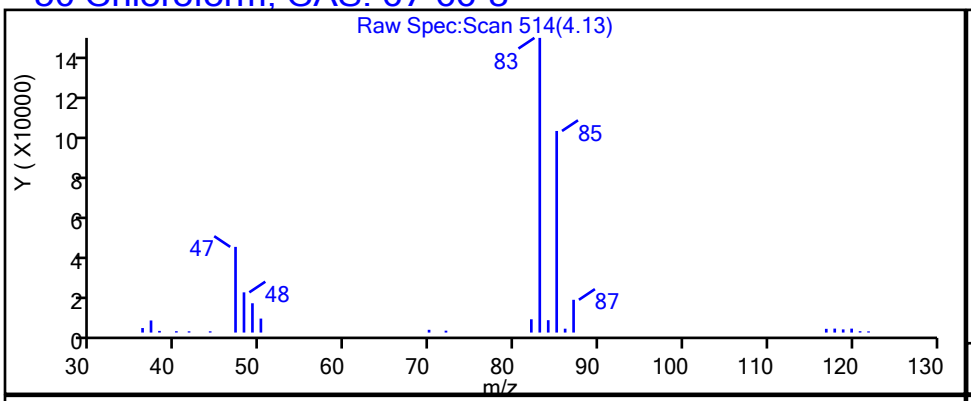
Report Date: 29-Oct-2024 13:57:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

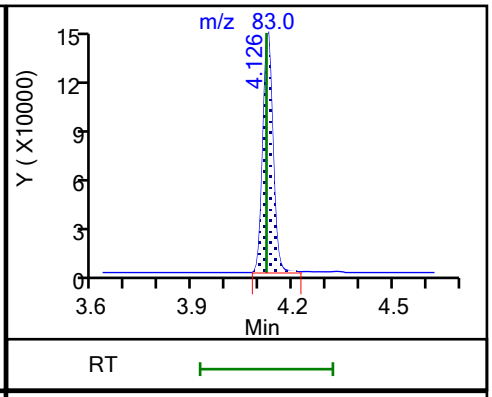
Eurofins Buffalo

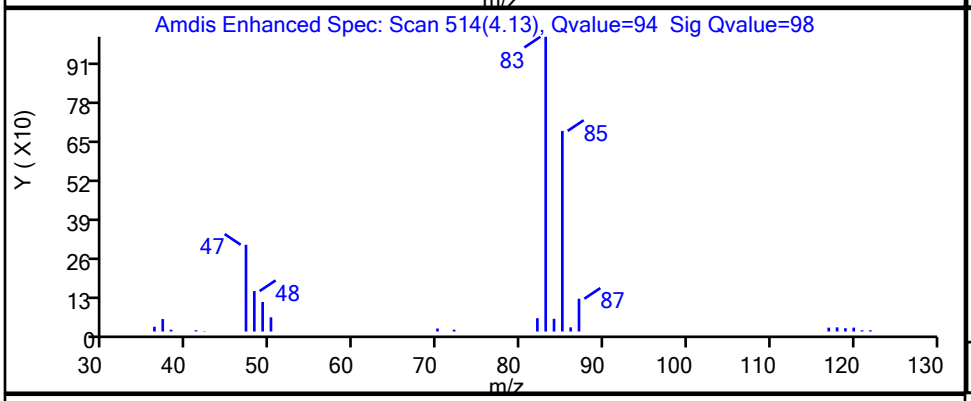
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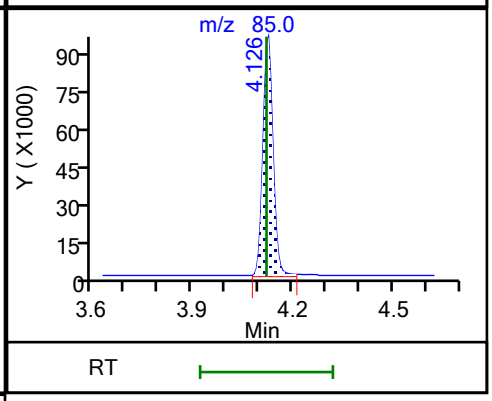
Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19		
Client ID:	W-67-102324				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

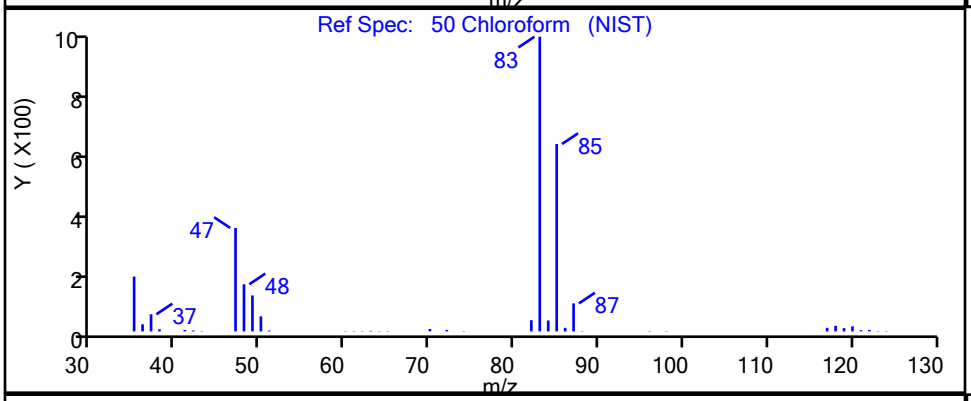
50 Chloroform, CAS: 67-66-3

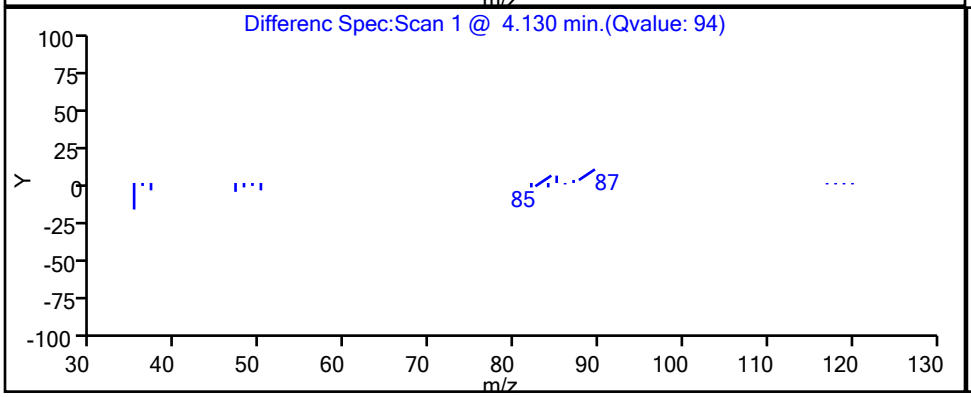


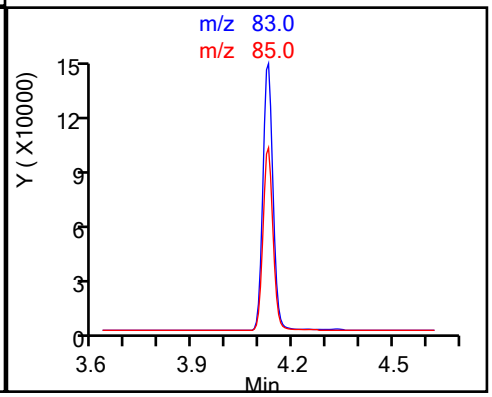












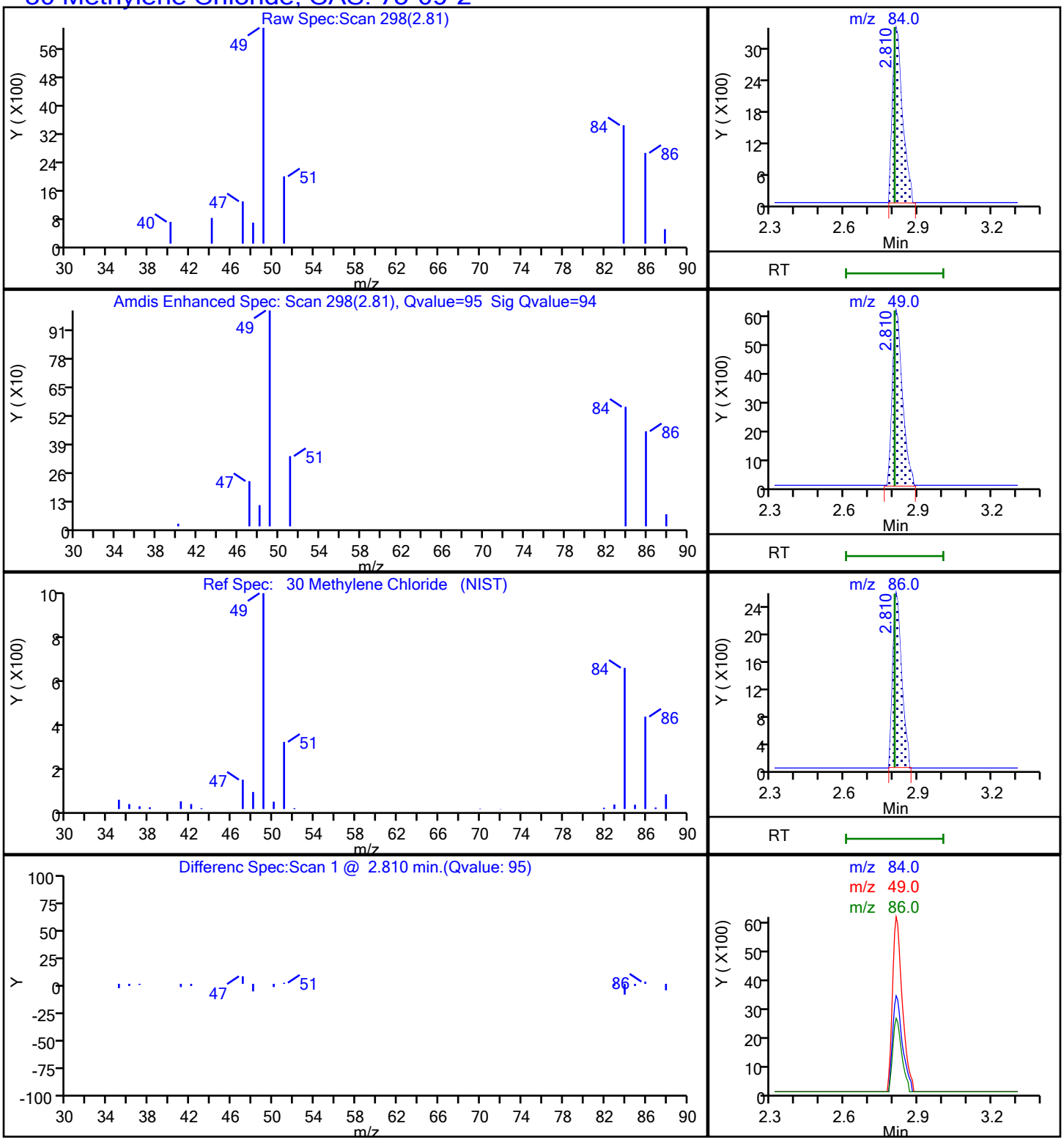
Report Date: 29-Oct-2024 13:57:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d

Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19		
Client ID:	W-67-102324				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



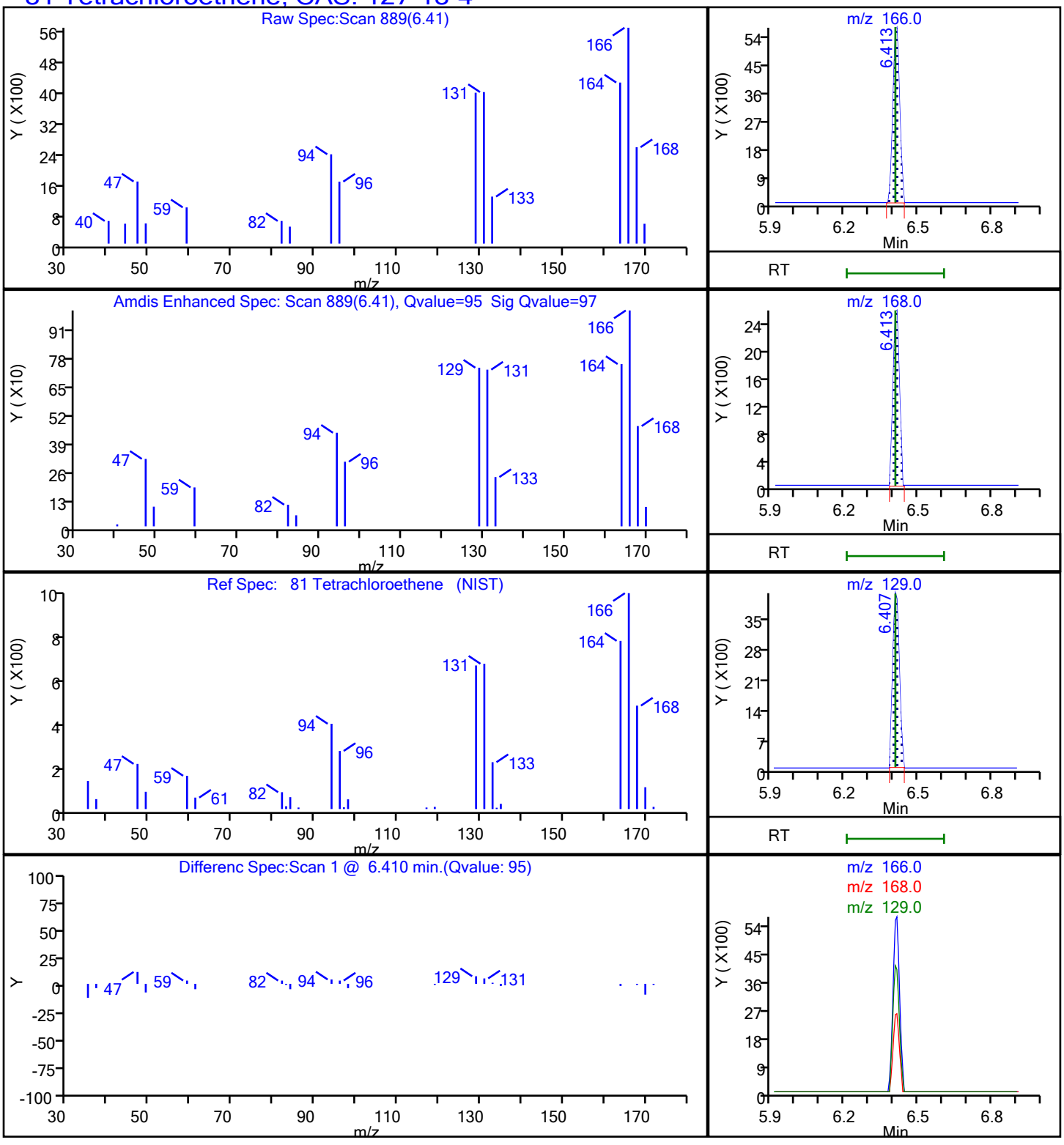
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d

Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19
Client ID:	W-67-102324		
Operator ID:	AK	ALS Bottle#:	25 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



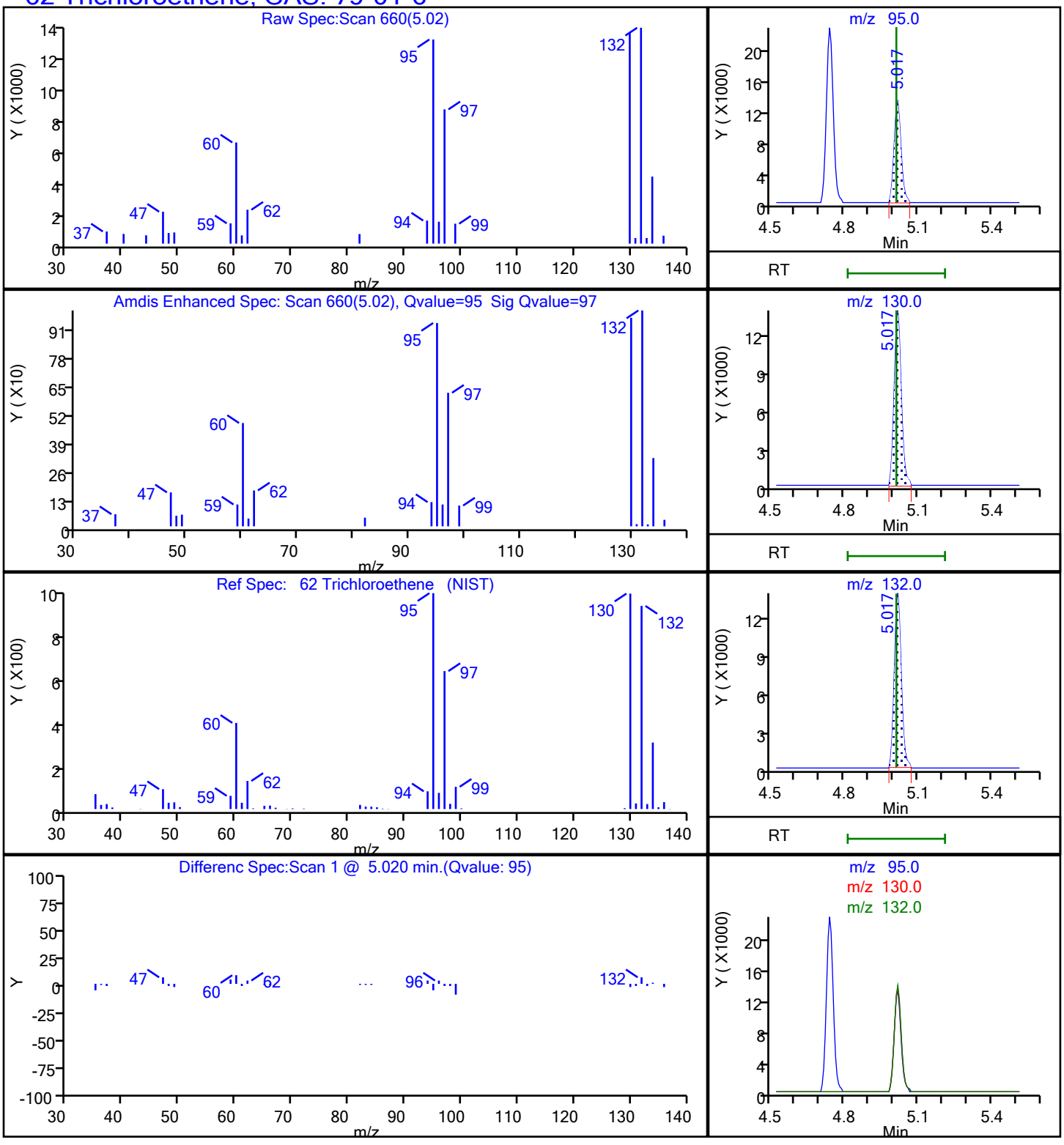
Report Date: 29-Oct-2024 13:57:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d

Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19
Client ID:	W-67-102324		
Operator ID:	AK	ALS Bottle#:	25 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



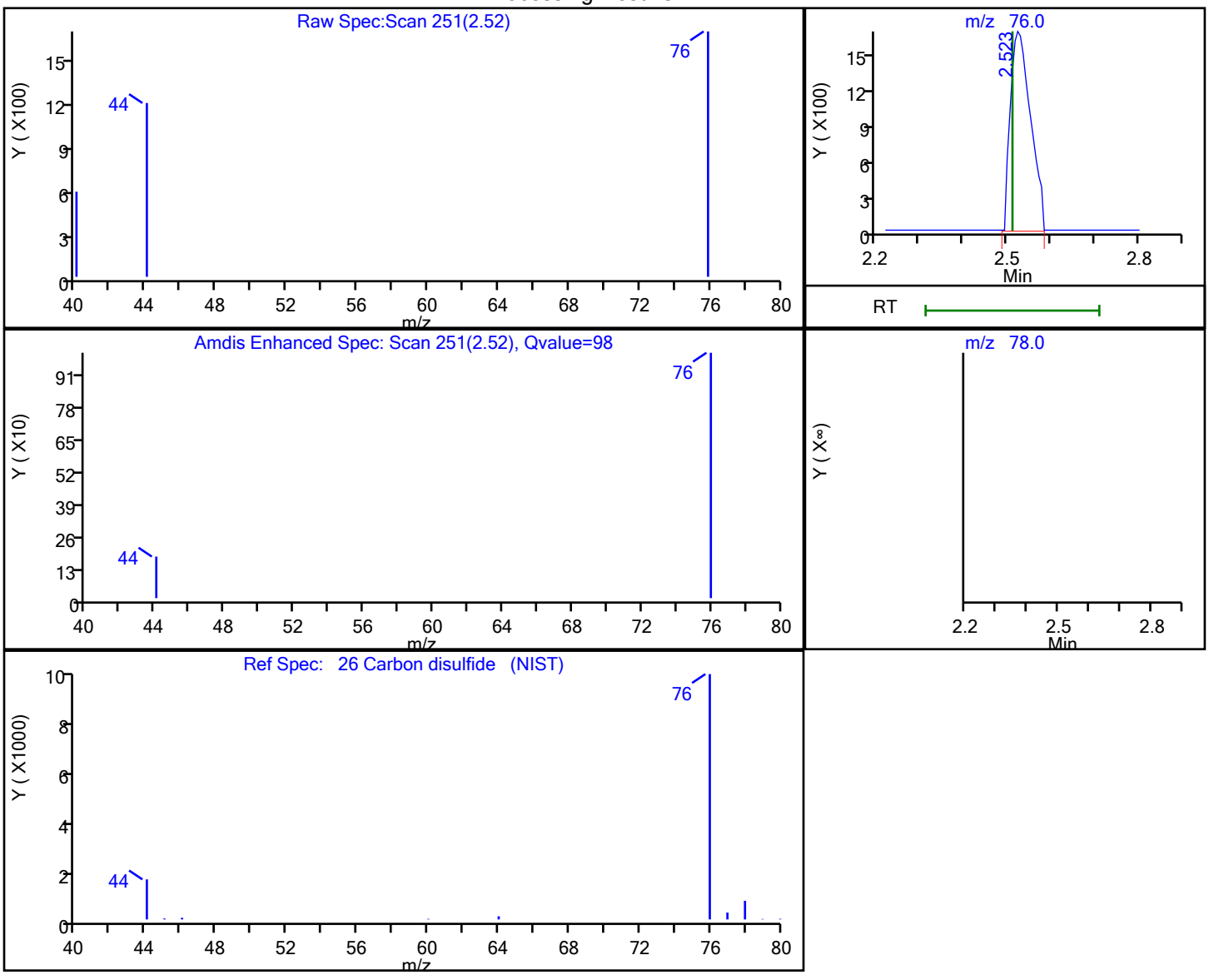
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8360.d				
Injection Date:	28-Oct-2024 20:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-19	Lab Sample ID:	480-224872-19		
Client ID:	W-67-102324				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	5464	0.385877
2.51	78.00	0	

Reviewer: R3QB, 29-Oct-2024 13:56:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-67-102324 | Lab Sample ID: 480-224872-20

Matrix: Water | Lab File ID: D8361.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 20:47

Soil Aliquot Vol: | Dilution Factor: 200

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	82	U	200	82
75-15-0	*Carbon disulfide*	*41000*	*E*	*200*	*38*
56-23-5	Carbon tetrachloride	54	U	200	54
108-90-7	Chlorobenzene	150	U	200	150
67-66-3	Chloroform	220		200	68
75-09-2	Methylene Chloride	88	U	200	88
127-18-4	Tetrachloroethene	850		200	72
108-88-3	Toluene	100	U	200	100
79-01-6	Trichloroethene	2300		200	92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8361.d
Lims ID: 480-224872-A-20
Client ID: LR-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:47:30 ALS Bottle#: 26 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-A-20
Misc. Info.: 480-0120860-028
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:57:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:57:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	92008	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	190019	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.991	0.006	95	225791	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	92	170114	28.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	98	95883	28.6	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	469176	25.6	
26 Carbon disulfide	76	2.517	2.511	0.006	100	2818327	203.9	E
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	95	9639	1.10	
55 Carbon tetrachloride	117		4.334				ND	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.016	5.010	0.006	96	53490	11.4	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.413	6.412	0.006	96	21477	4.25	
87 Chlorobenzene	112		7.108				ND	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

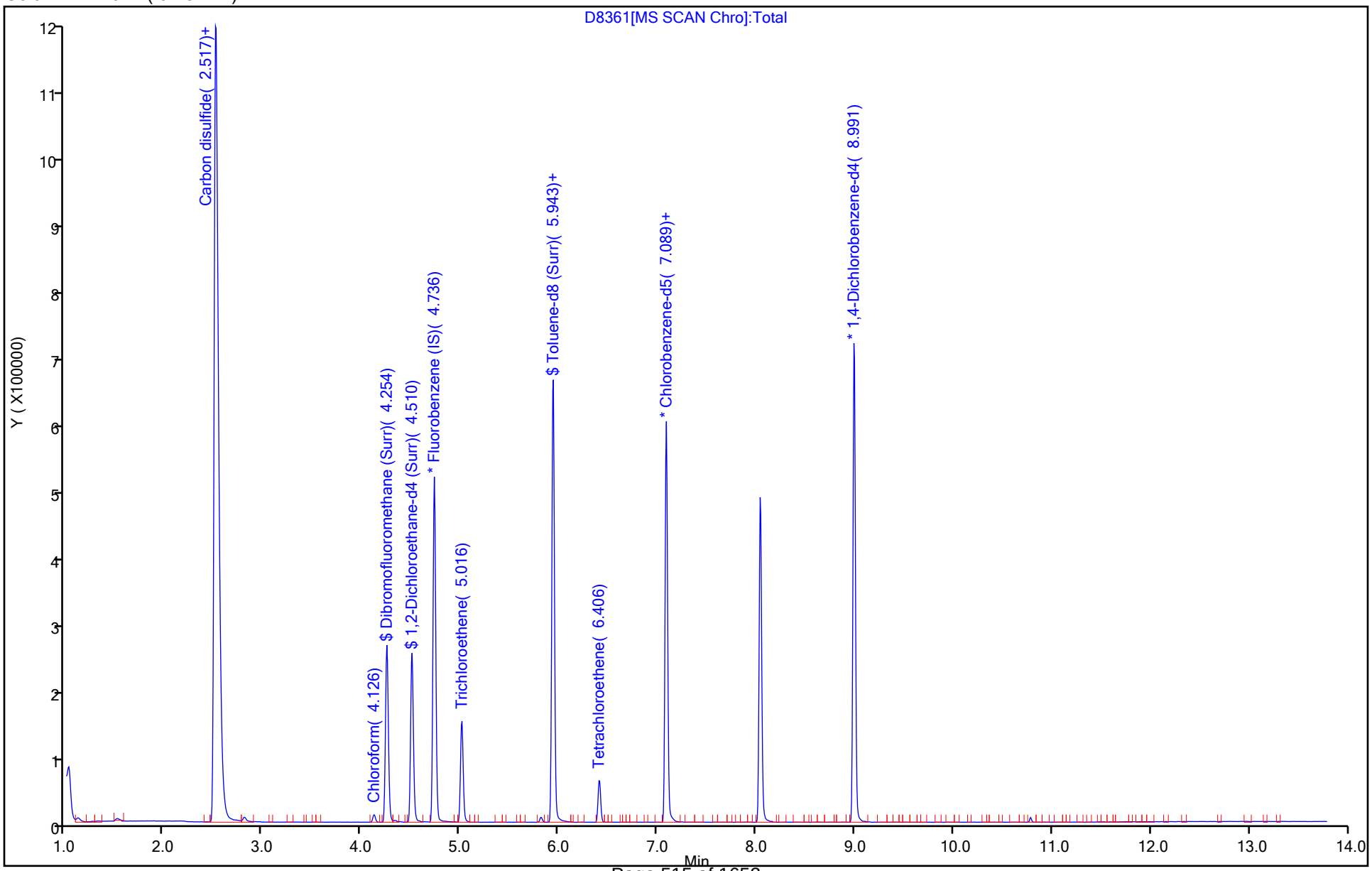
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8361.d

Injection Date:	28-Oct-2024 20:47:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-20	Lab Sample ID:	480-224872-20	Worklist Smp#:	28
Client ID:	LR-67-102324				
Purge Vol:	5.000 mL	Dil. Factor:	200.0000	ALS Bottle#:	26
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8361.d
Lims ID: 480-224872-A-20
Client ID: LR-67-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 20:47:30 ALS Bottle#: 26 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 200.0000
Sample Info: 480-224872-A-20
Misc. Info.: 480-0120860-028
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:57:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:57:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.8	115.03
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.6	114.32
$ 5 Toluene-d8 (Surr)	25.0	25.6	102.34

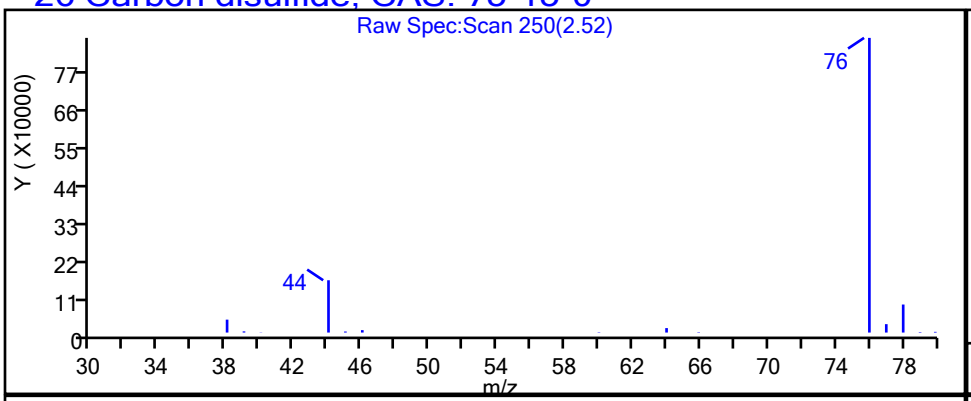
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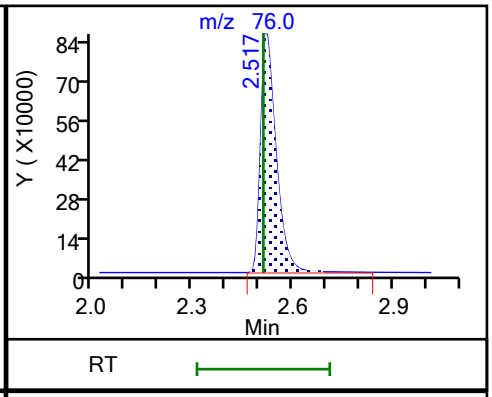
Eurofins Buffalo

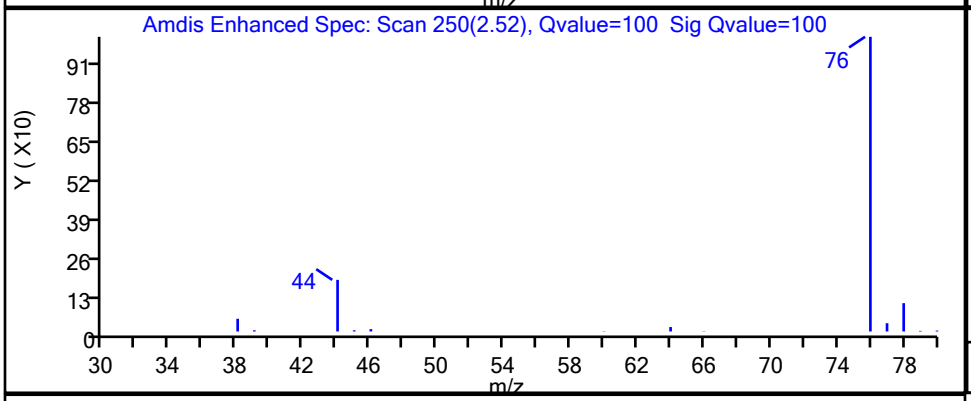
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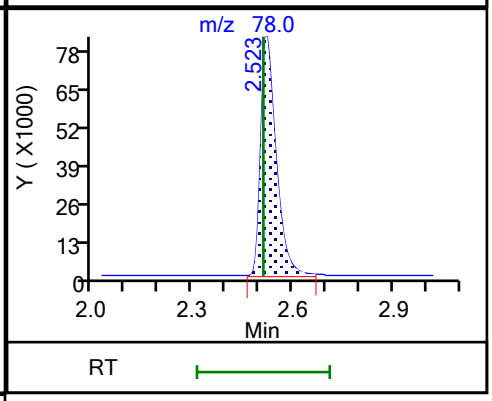
Injection Date:	28-Oct-2024 20:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-20	Lab Sample ID:	480-224872-20
Client ID:	LR-67-102324		
Operator ID:	AK	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

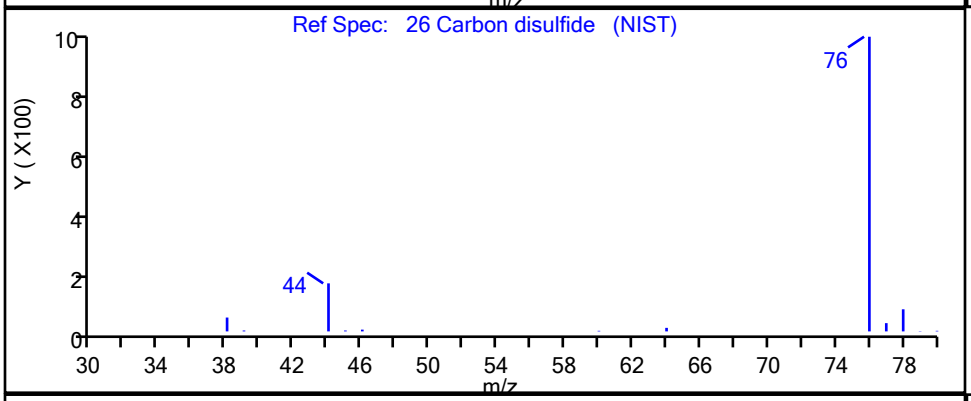
26 Carbon disulfide, CAS: 75-15-0

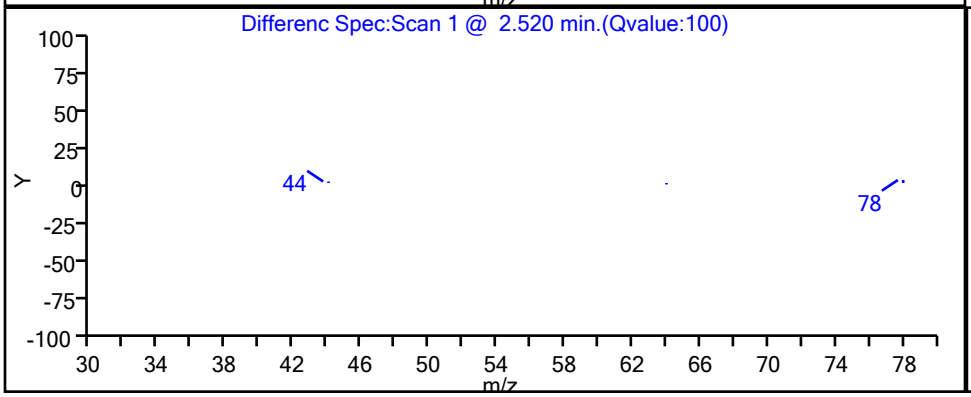


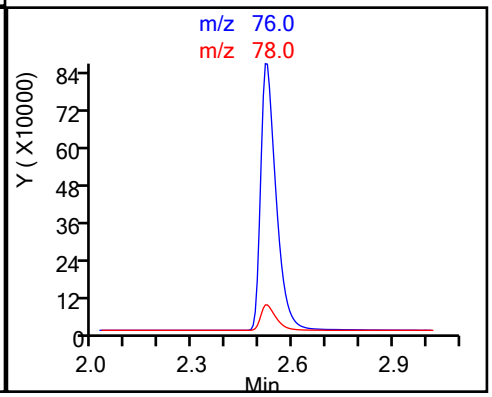












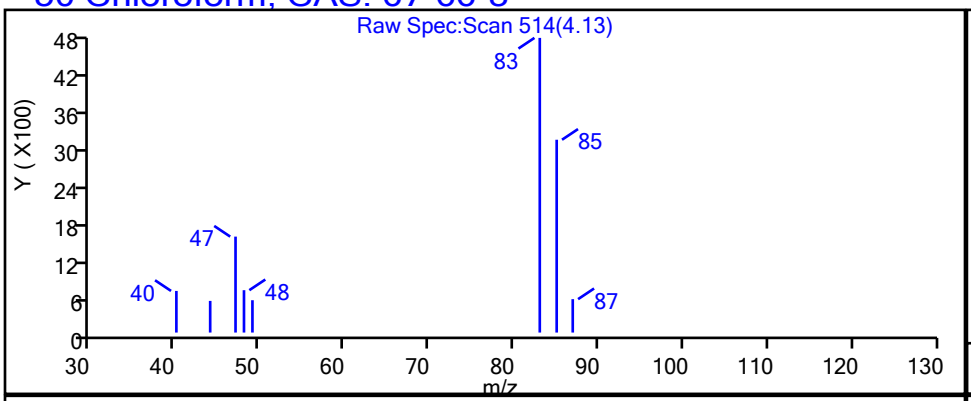
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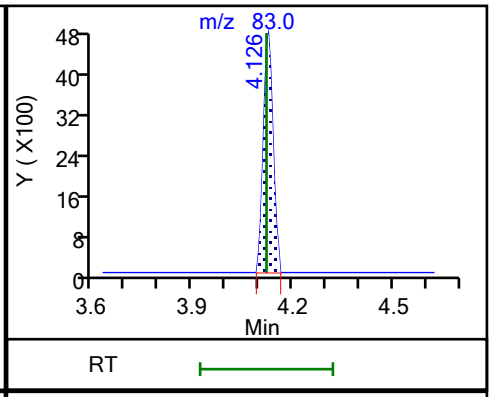
Eurofins Buffalo

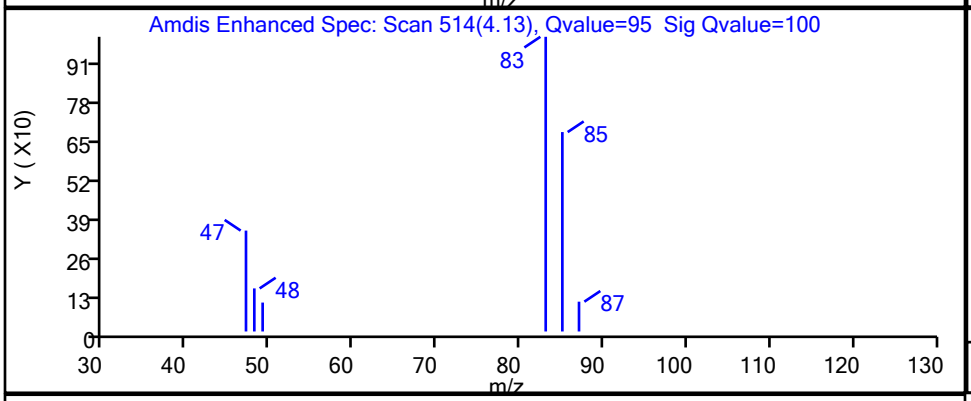
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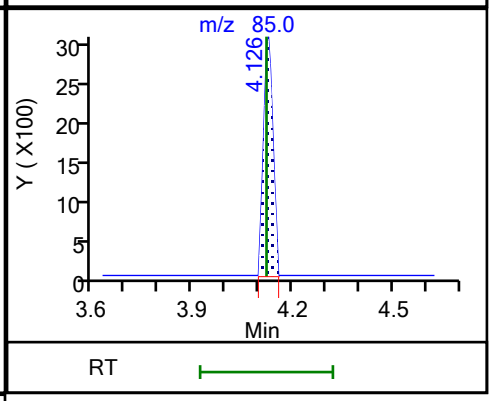
Injection Date:	28-Oct-2024 20:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-20	Lab Sample ID:	480-224872-20
Client ID:	LR-67-102324		
Operator ID:	AK	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

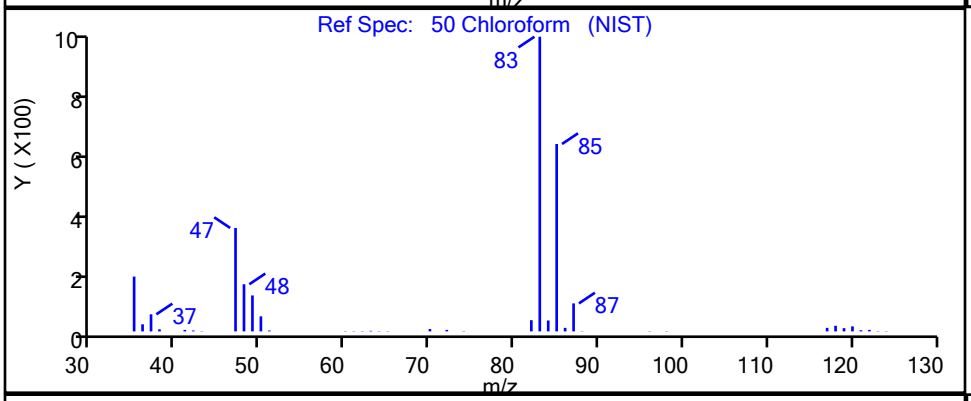
50 Chloroform, CAS: 67-66-3

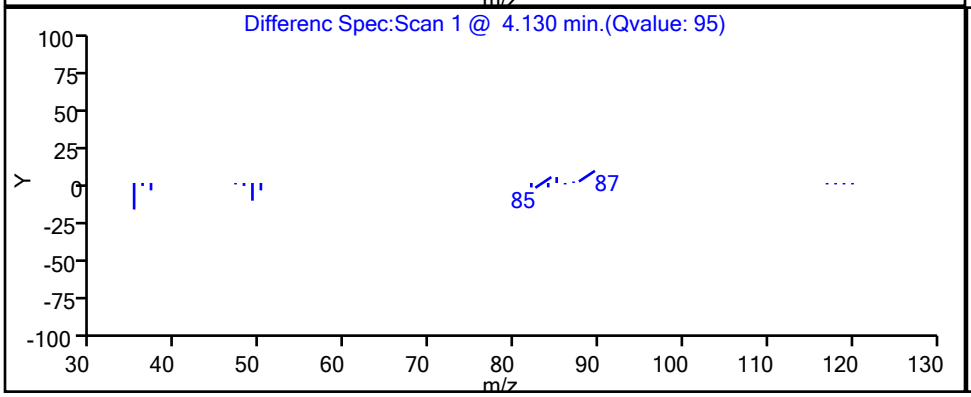


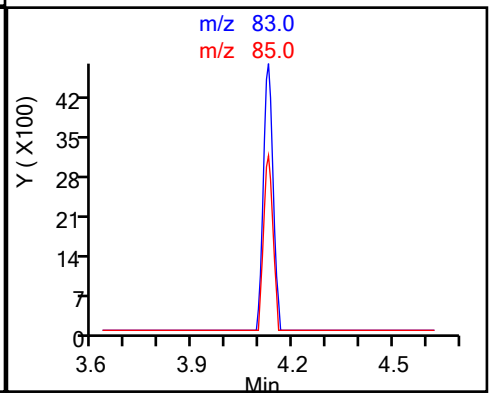












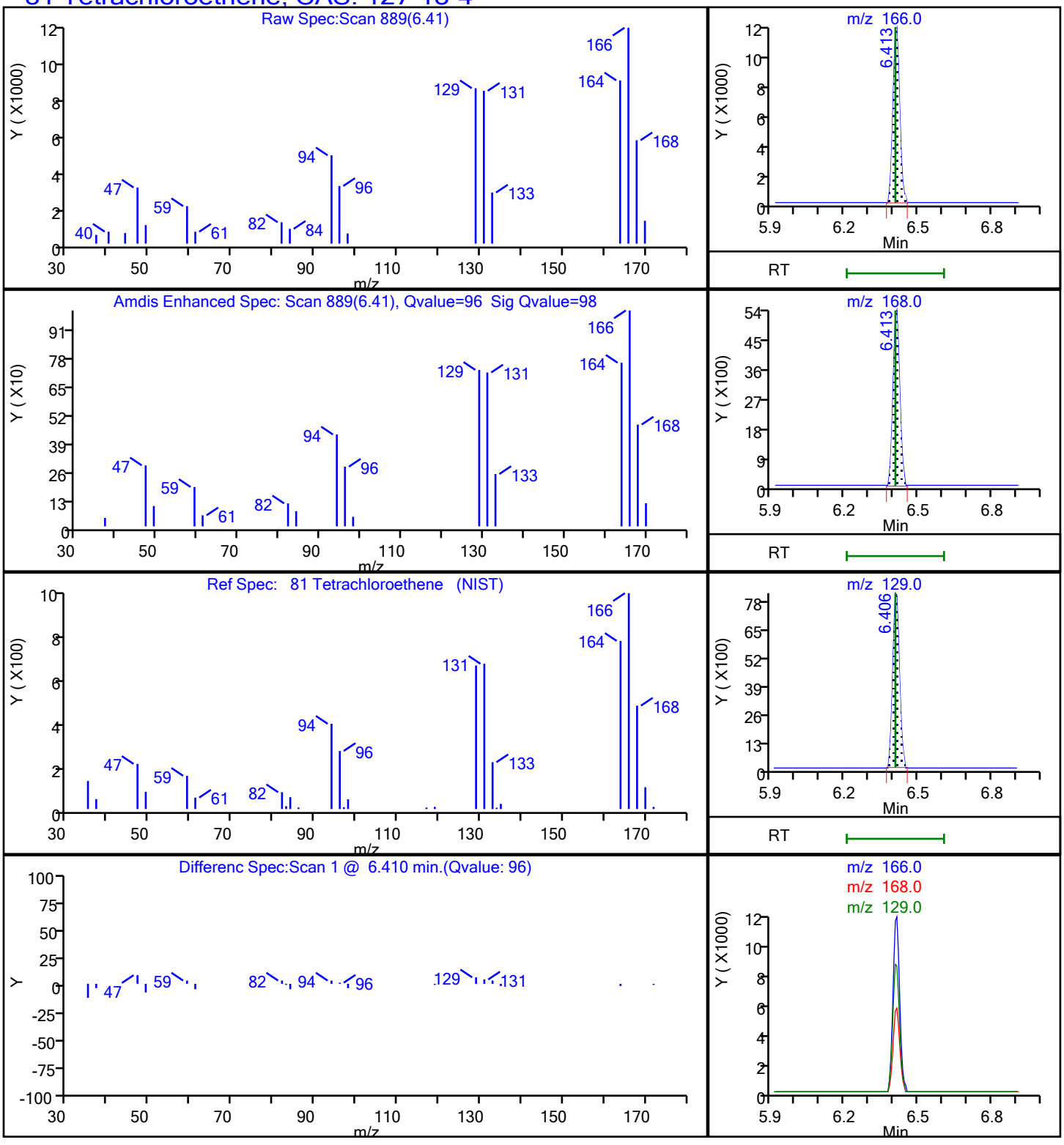
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8361.d

Injection Date:	28-Oct-2024 20:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-20	Lab Sample ID:	480-224872-20
Client ID:	LR-67-102324		
Operator ID:	AK	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



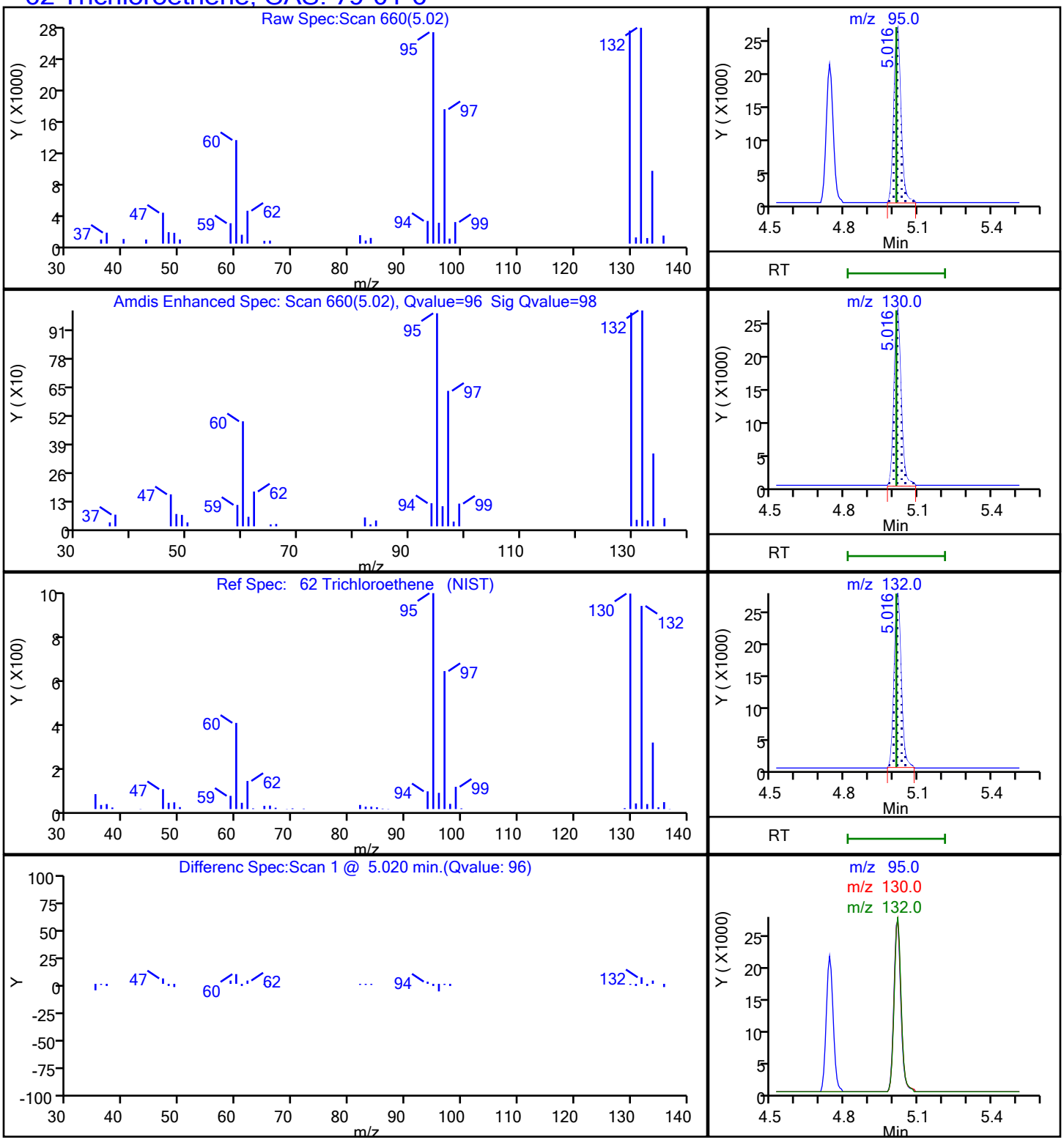
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8361.d

Injection Date:	28-Oct-2024 20:47:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-20	Lab Sample ID:	480-224872-20
Client ID:	LR-67-102324		
Operator ID:	AK	ALS Bottle#:	26 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	200.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-67-102324 DL | Lab Sample ID: 480-224872-20 DL

Matrix: Water | Lab File ID: D8422.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 19:43

Soil Aliquot Vol: | Dilution Factor: 800

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	*Benzene*	*330*	*U*	*800*	*330*
75-15-0	Carbon disulfide	36000	D	800	150
56-23-5	*Carbon tetrachloride*	*220*	*U*	*800*	*220*
108-90-7	*Chlorobenzene*	*600*	*U*	*800*	*600*
67-66-3	*Chloroform*	*320*	*J D*	*800*	*270*
75-09-2	*Methylene Chloride*	*350*	*U*	*800*	*350*
127-18-4	*Tetrachloroethene*	*690*	*J D*	*800*	*290*
108-88-3	*Toluene*	*410*	*U*	*800*	*410*
79-01-6	*Trichloroethene*	*1900*	*D*	*800*	*370*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110	D	77-120
1868-53-7	Dibromofluoromethane (Surr)	112	D	75-123
2037-26-5	Toluene-d8 (Surr)	102	D	80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8422.d
Lims ID: 480-224872-B-20
Client ID: LR-67-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 19:43:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 800.0000
Sample Info: 480-224872-B-20
Misc. Info.: 480-0120894-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	95299	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	86	189366	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	225904	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	-0.001	92	171223	27.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.516	4.517	-0.001	98	95850	27.6	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	464688	25.4	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	646171	45.1	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.132	4.133	-0.001	91	3650	0.4004	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95	5.022	5.023	-0.001	94	11406	2.34	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.412	0.006	92	4365	0.8660	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

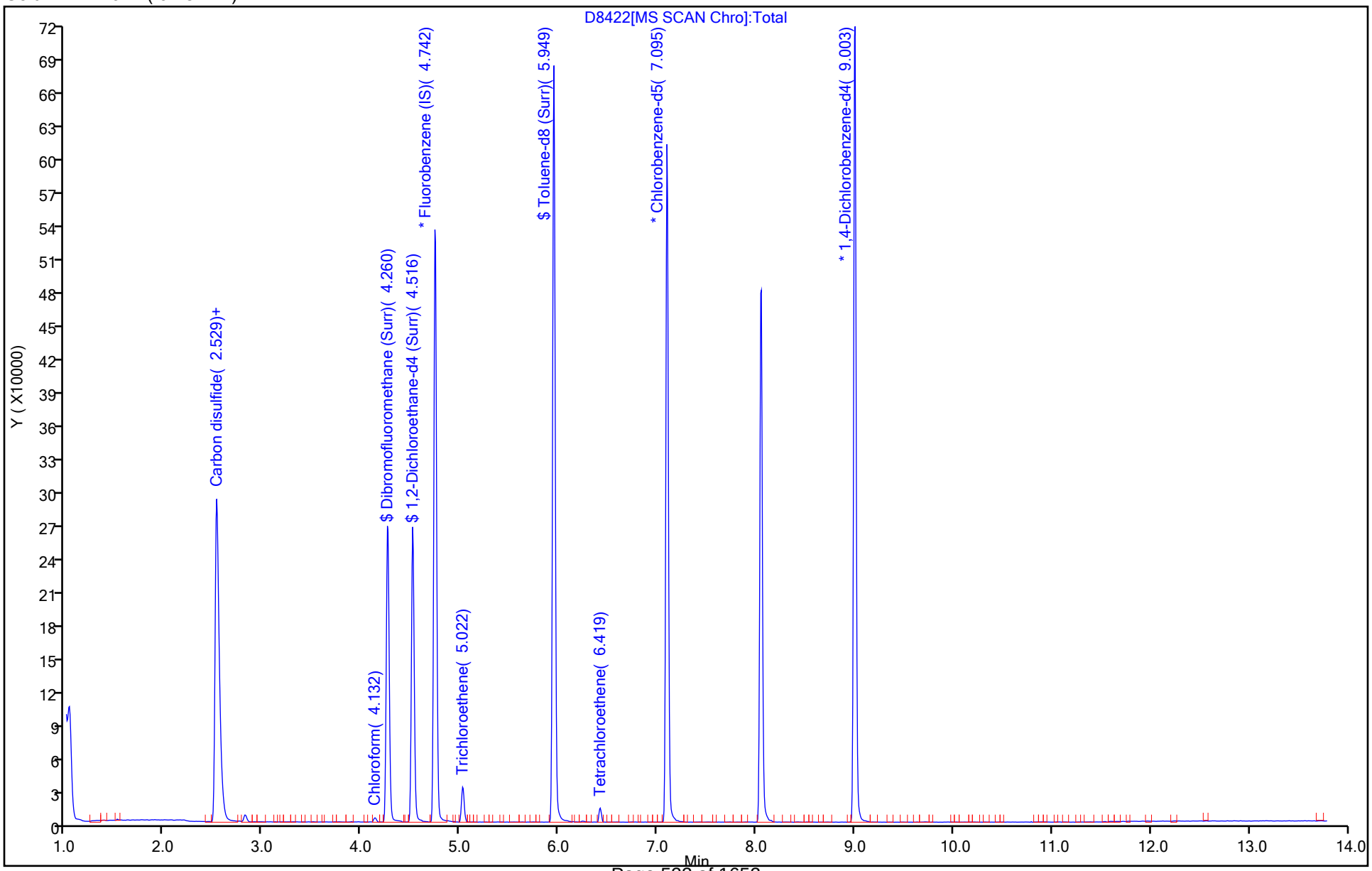
Report Date: 29-Oct-2024 20:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8422.d

Injection Date:	29-Oct-2024 19:43:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-20	Lab Sample ID:	480-224872-20	Worklist Smp#:	20
Client ID:	LR-67-102324				
Purge Vol:	5.000 mL	Dil. Factor:	800.0000	ALS Bottle#:	18
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8422.d
Lims ID: 480-224872-B-20
Client ID: LR-67-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 19:43:30 ALS Bottle#: 18 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 800.0000
Sample Info: 480-224872-B-20
Misc. Info.: 480-0120894-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:59:47 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:09:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.9	111.78
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.6	110.34
$ 5 Toluene-d8 (Surr)	25.0	25.4	101.71

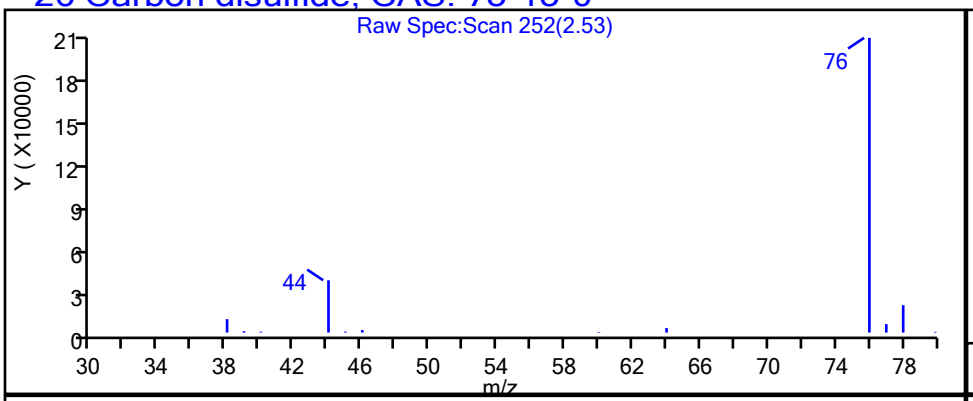
Report Date: 29-Oct-2024 20:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

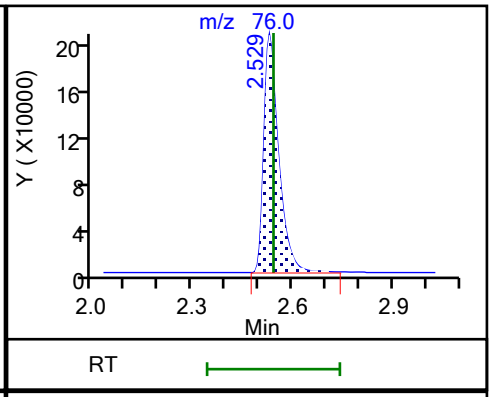
Eurofins Buffalo

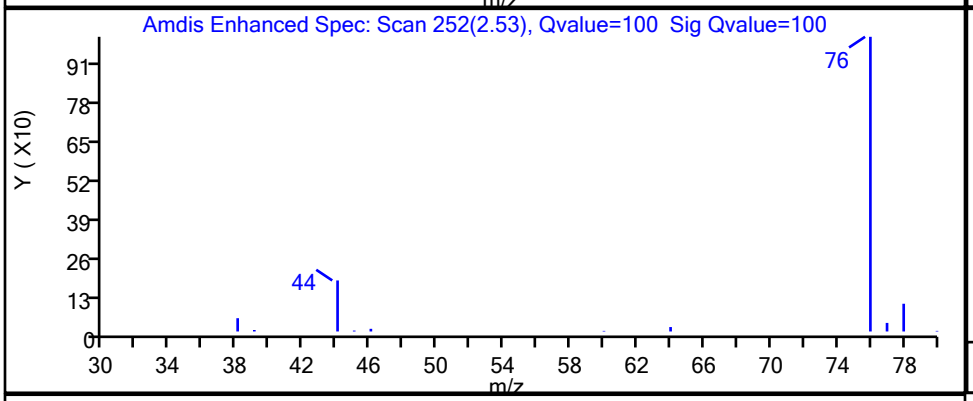
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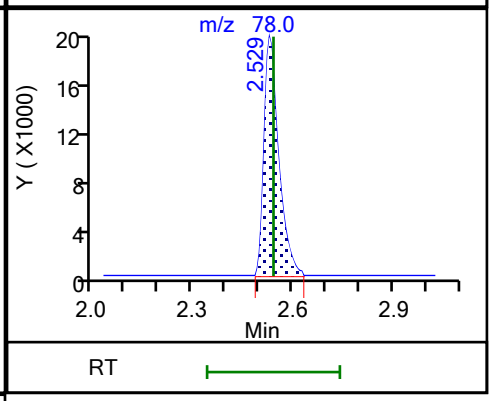
Injection Date:	29-Oct-2024 19:43:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-20	Lab Sample ID:	480-224872-20		
Client ID:	LR-67-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

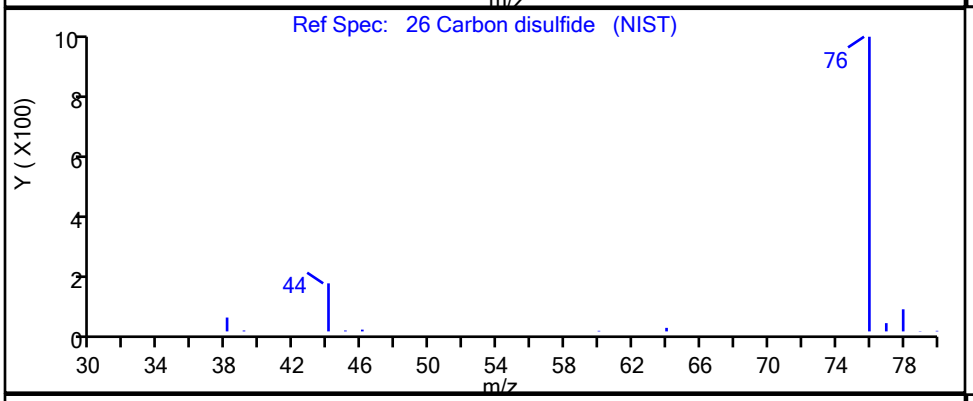
26 Carbon disulfide, CAS: 75-15-0

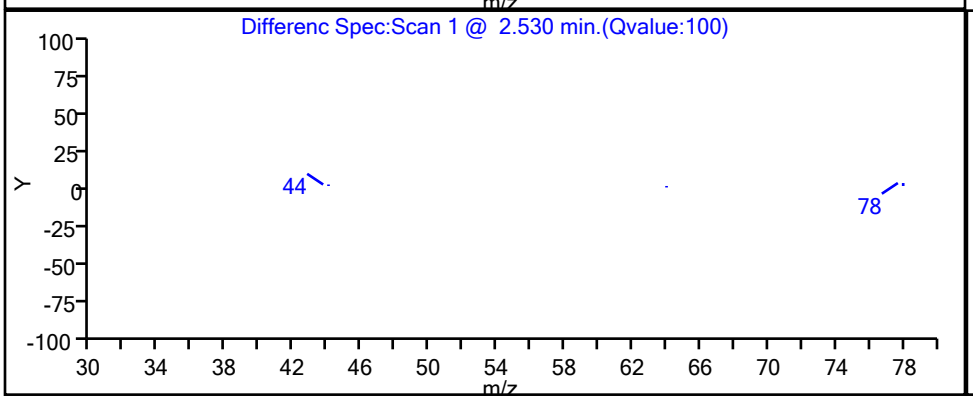


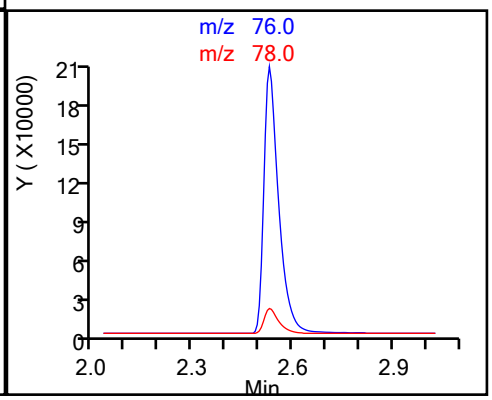












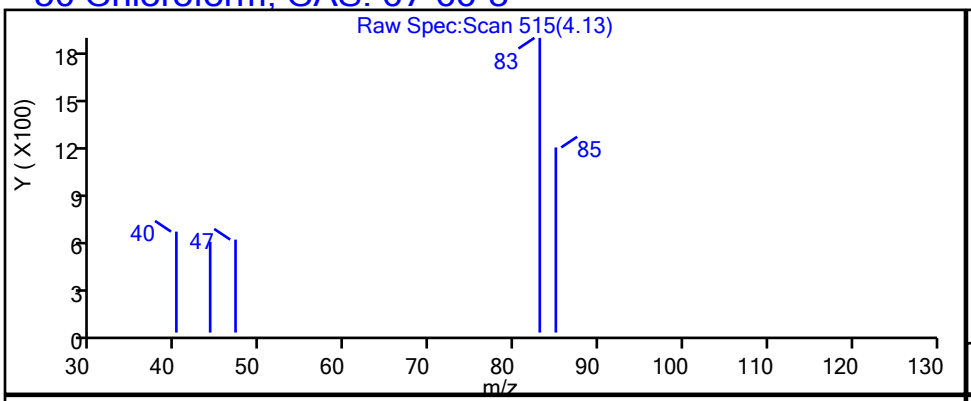
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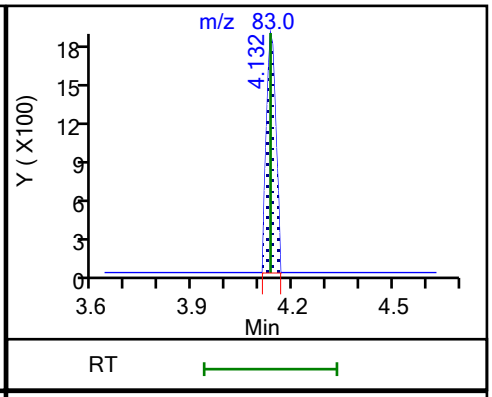
Eurofins Buffalo

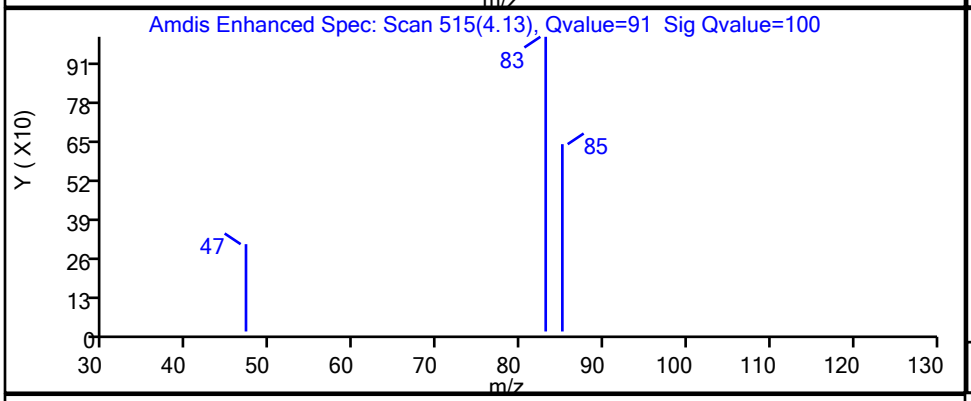
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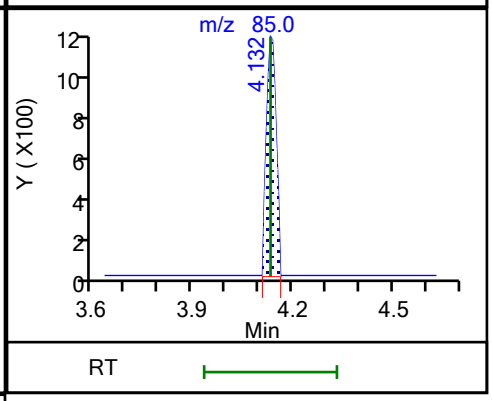
Injection Date:	29-Oct-2024 19:43:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-20	Lab Sample ID:	480-224872-20		
Client ID:	LR-67-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

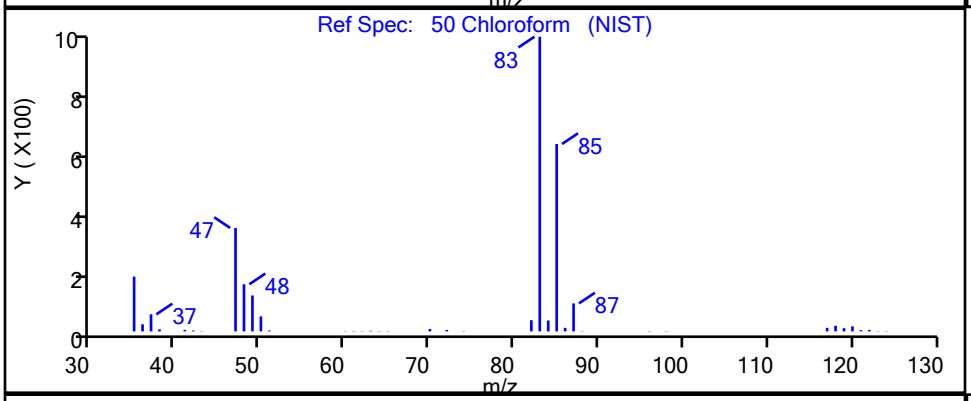
50 Chloroform, CAS: 67-66-3

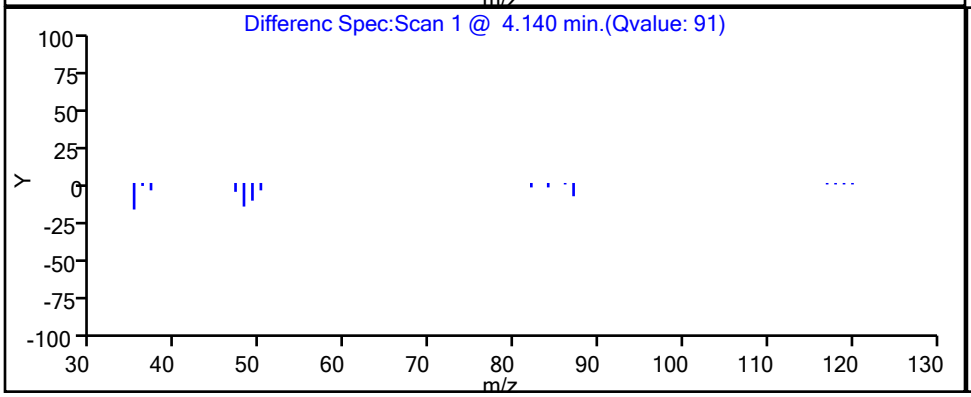


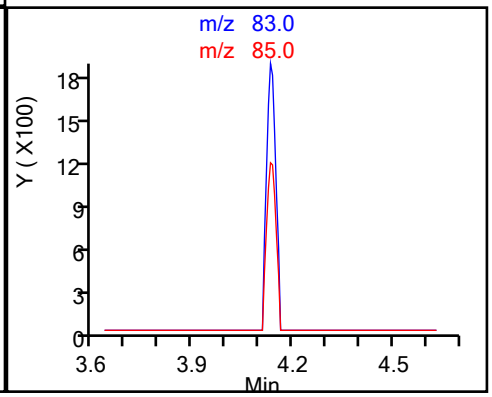












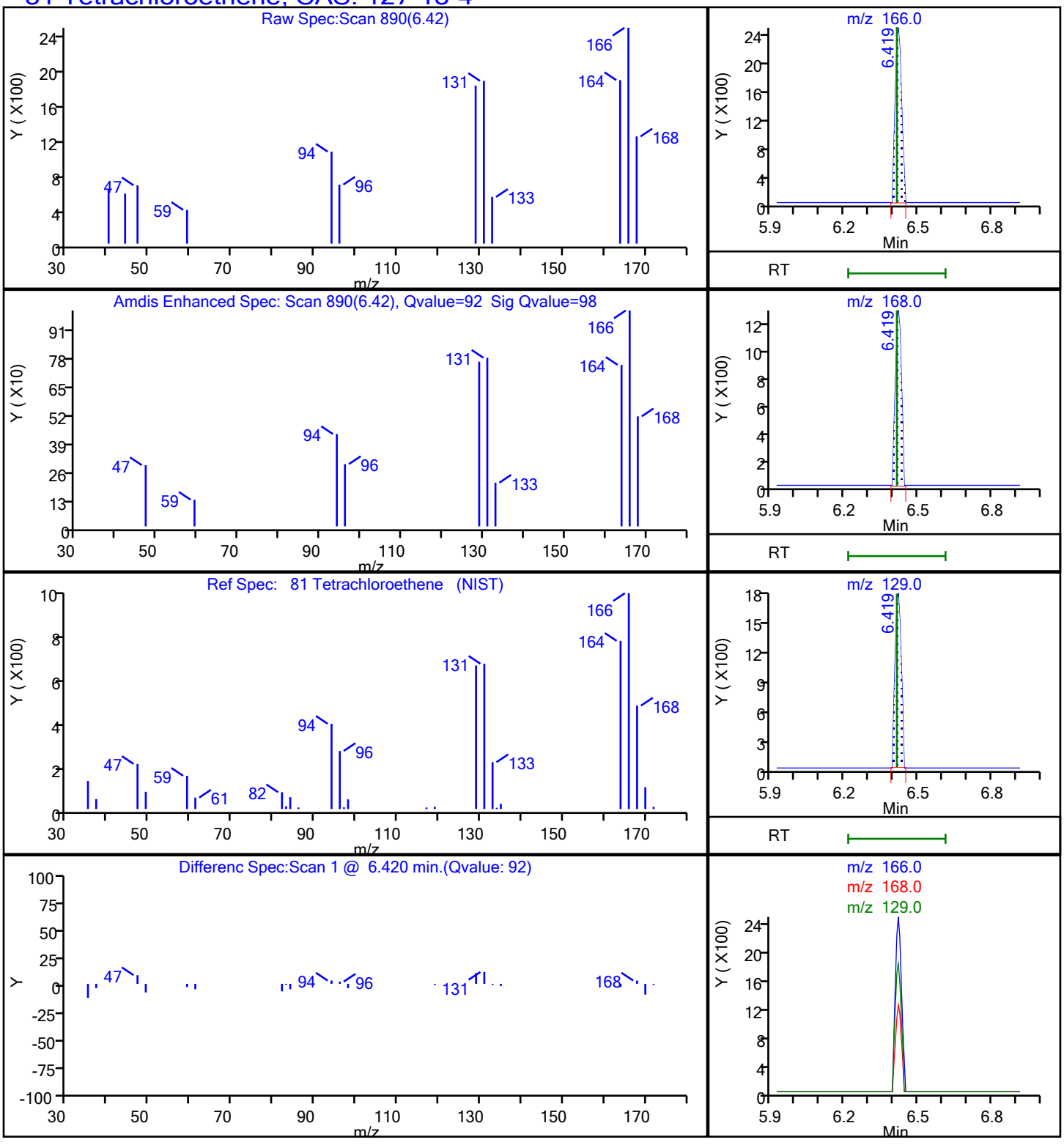
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8422.d

Injection Date:	29-Oct-2024 19:43:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-20	Lab Sample ID:	480-224872-20		
Client ID:	LR-67-102324				
Operator ID:	AK	ALS Bottle#:	18	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



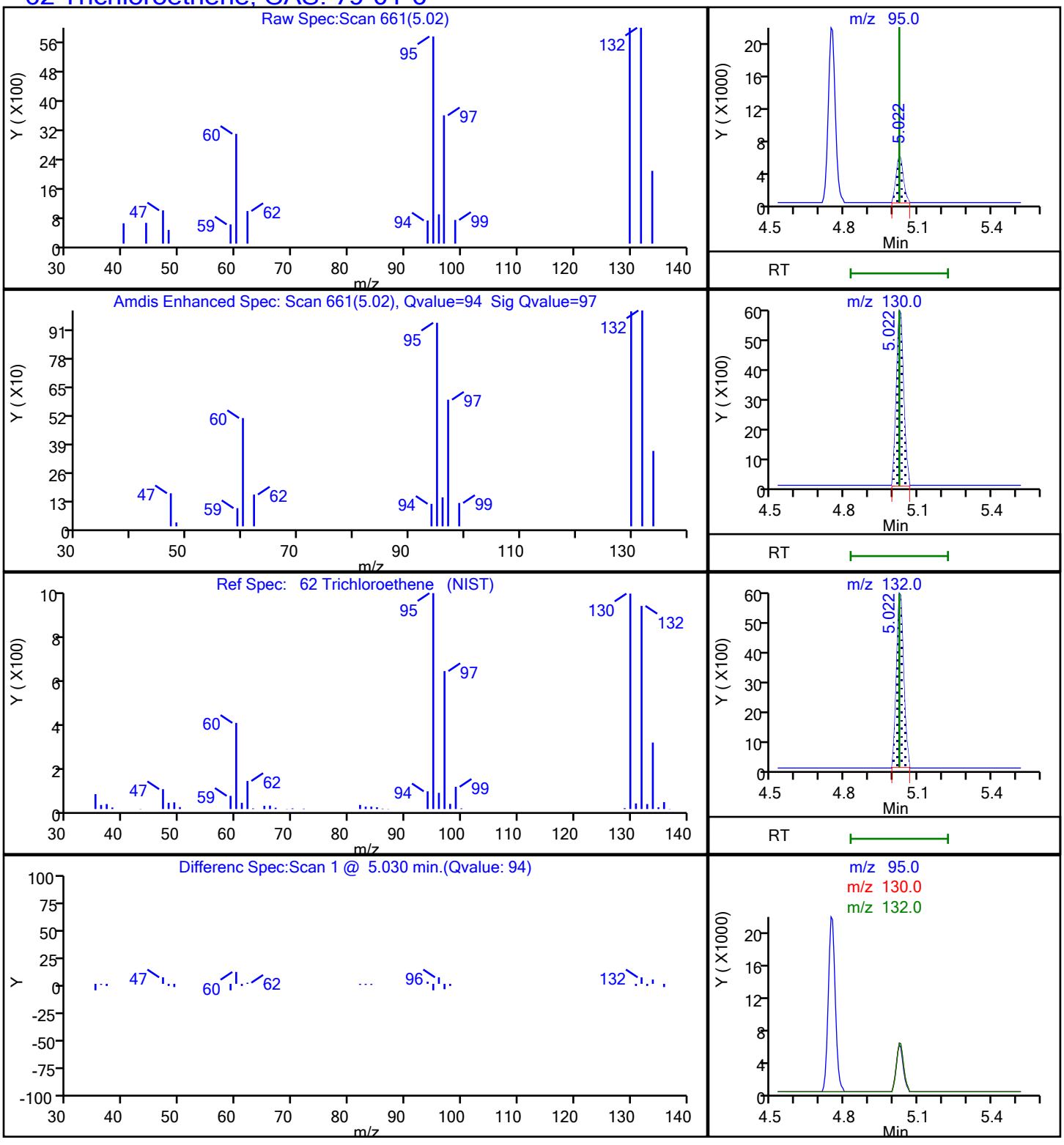
Report Date: 29-Oct-2024 20:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8422.d

Injection Date:	29-Oct-2024 19:43:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-20	Lab Sample ID:	480-224872-20
Client ID:	LR-67-102324		
Operator ID:	AK	ALS Bottle#:	18 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	800.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-48-102324 | Lab Sample ID: 480-224872-21

Matrix: Water | Lab File ID: D8362.d

Analysis Method: 8260C | Date Collected: 10/23/2024 14:51

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 21:09

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	9.6		1.0	0.27
108-90-7	Chlorobenzene	14		1.0	0.75
67-66-3	Chloroform	3.9		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	4.0		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	3.5		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d
Lims ID: 480-224872-A-21
Client ID: LR-48-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:09:30 ALS Bottle#: 27 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-21
Misc. Info.: 480-0120860-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:03 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	94766	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	200795	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	230304	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	93	173998	28.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	95869	27.7	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	477369	24.6	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	95	35426	3.91	
55 Carbon tetrachloride	117	4.340	4.334	0.006	97	62997	9.60	
57 Benzene	78		4.511				ND	
62 Trichloroethene	95	5.017	5.010	0.007	96	16882	3.49	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166	6.406	6.412	0.000	96	21259	3.98	
87 Chlorobenzene	112	7.114	7.114	0.006	96	183058	14.1	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

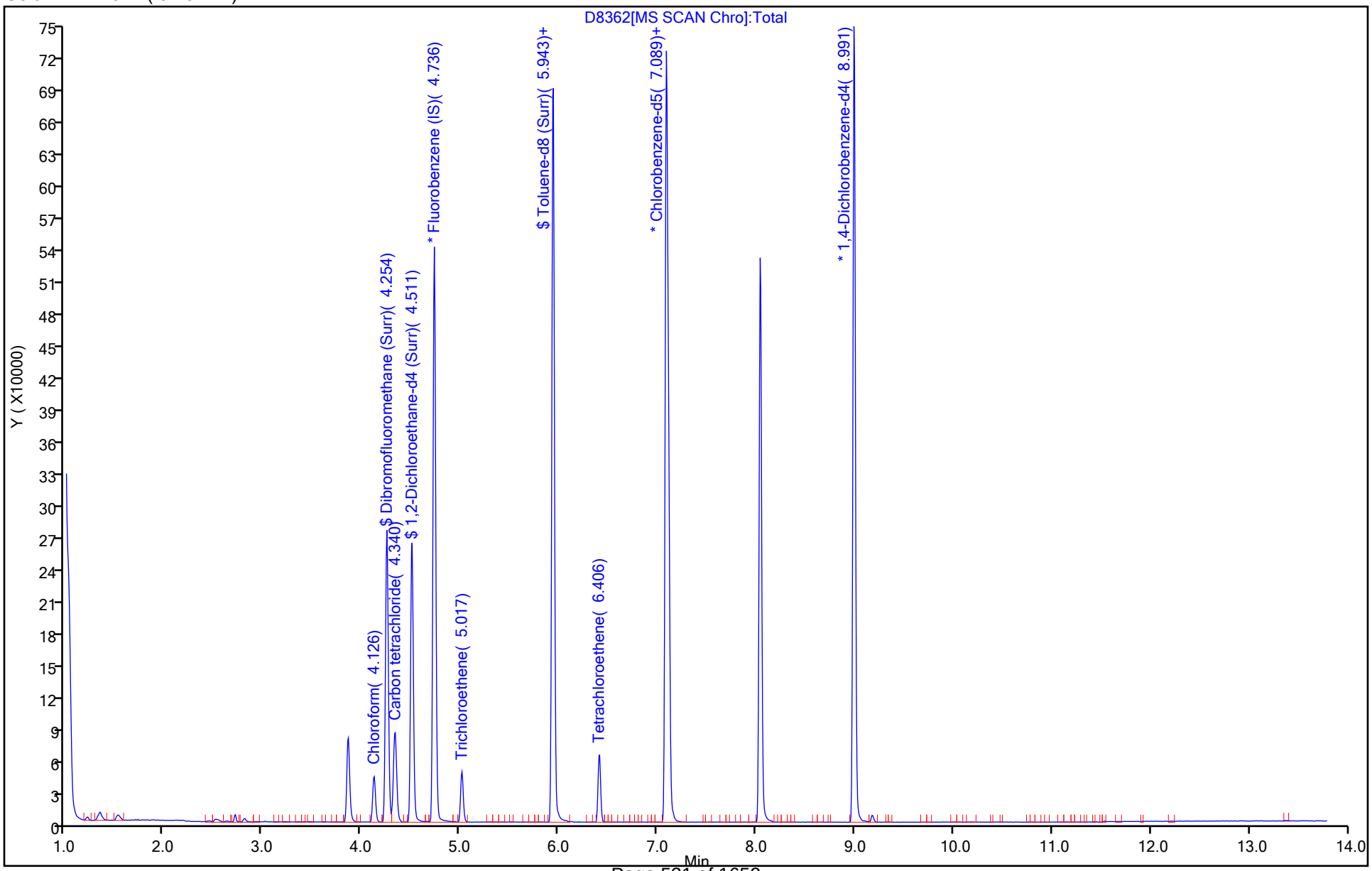
Report Date: 29-Oct-2024 13:58:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d

Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21	Worklist Smp#:	29
Client ID:	LR-48-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d
Lims ID: 480-224872-A-21
Client ID: LR-48-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:09:30 ALS Bottle#: 27 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-21
Misc. Info.: 480-0120860-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:03 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.6	114.23
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.7	110.98
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.54

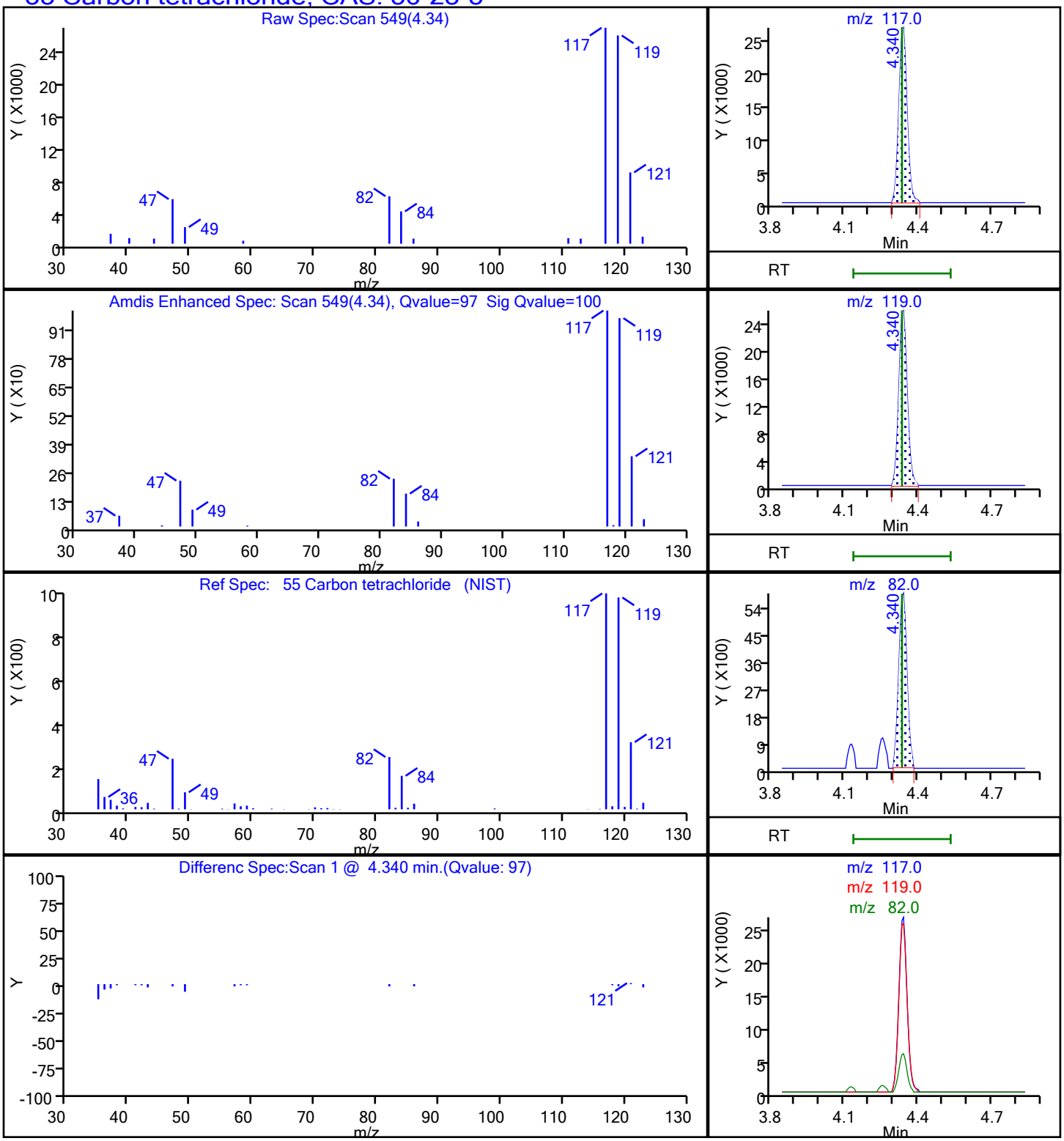
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d

Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21		
Client ID:	LR-48-102324				
Operator ID:	AK	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



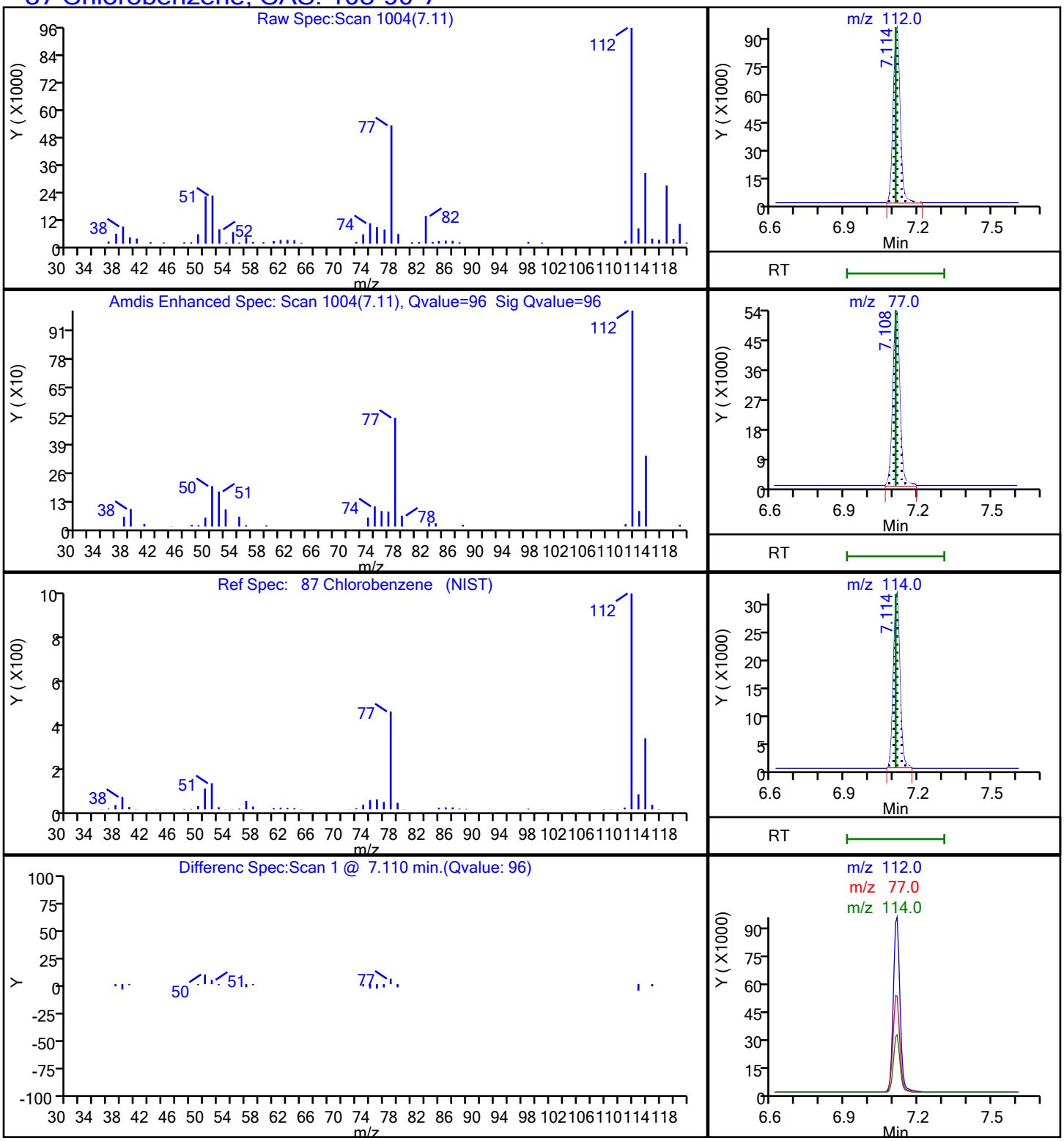
Report Date: 29-Oct-2024 13:58:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d

Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21		
Client ID:	LR-48-102324				
Operator ID:	AK	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



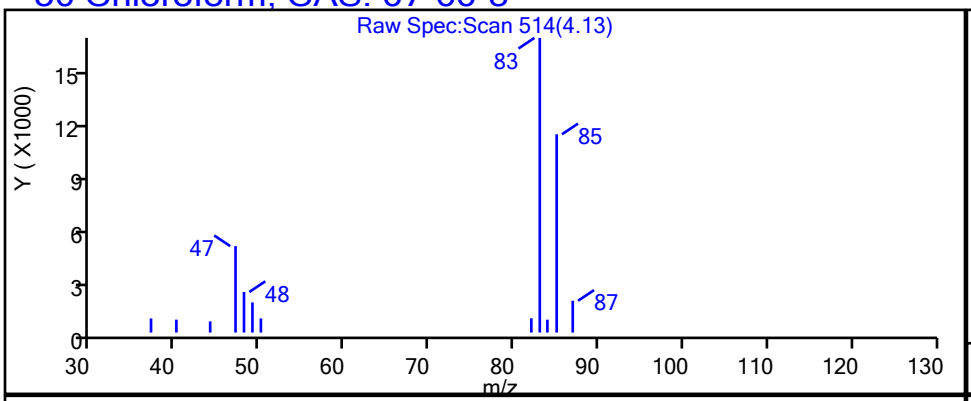
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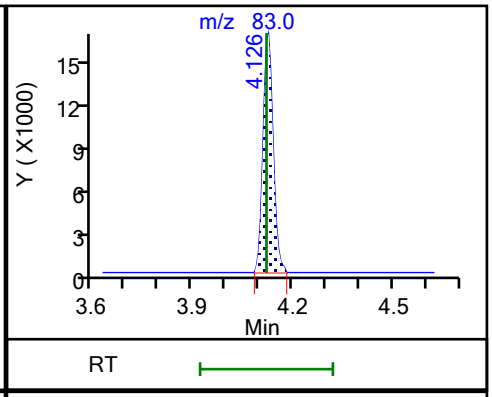
Eurofins Buffalo

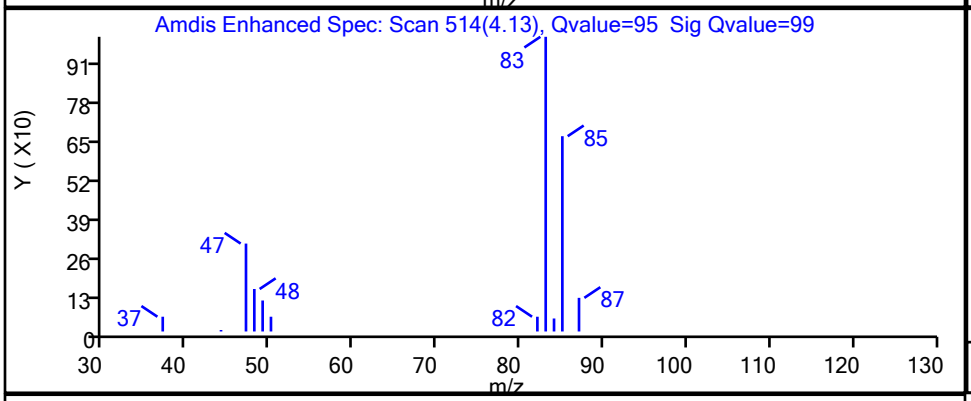
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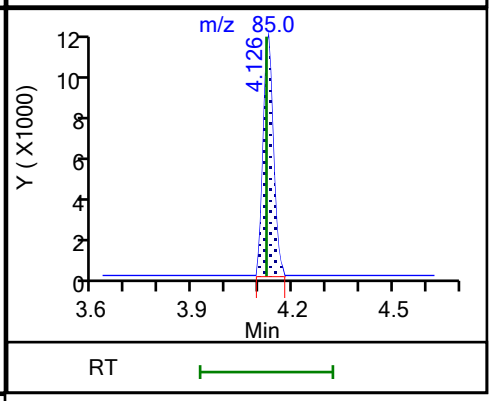
Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21		
Client ID:	LR-48-102324				
Operator ID:	AK	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

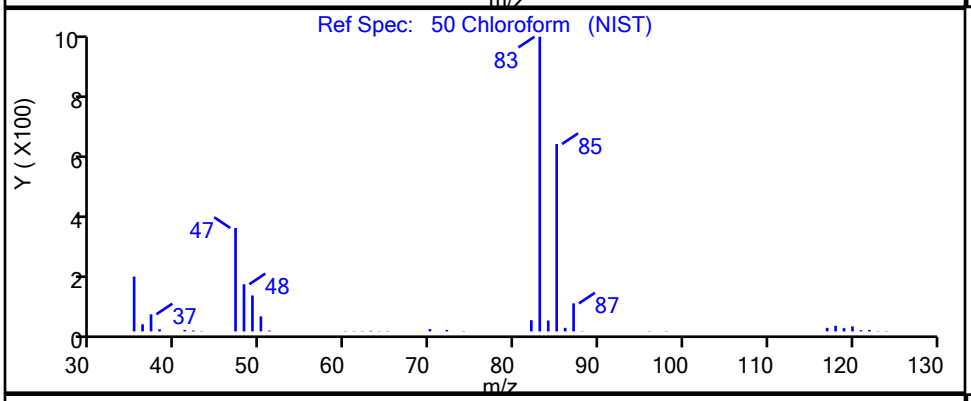
50 Chloroform, CAS: 67-66-3

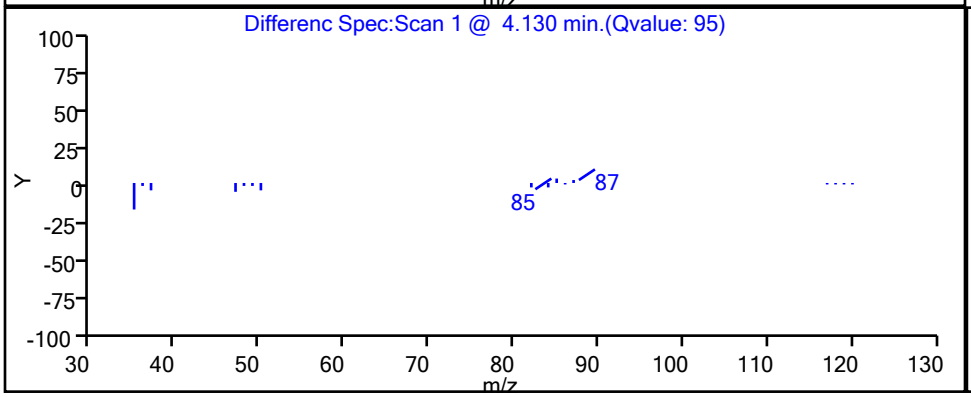


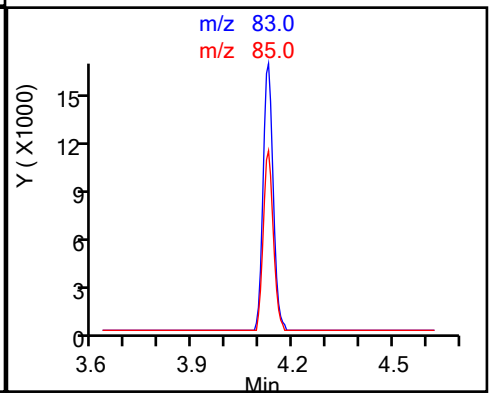












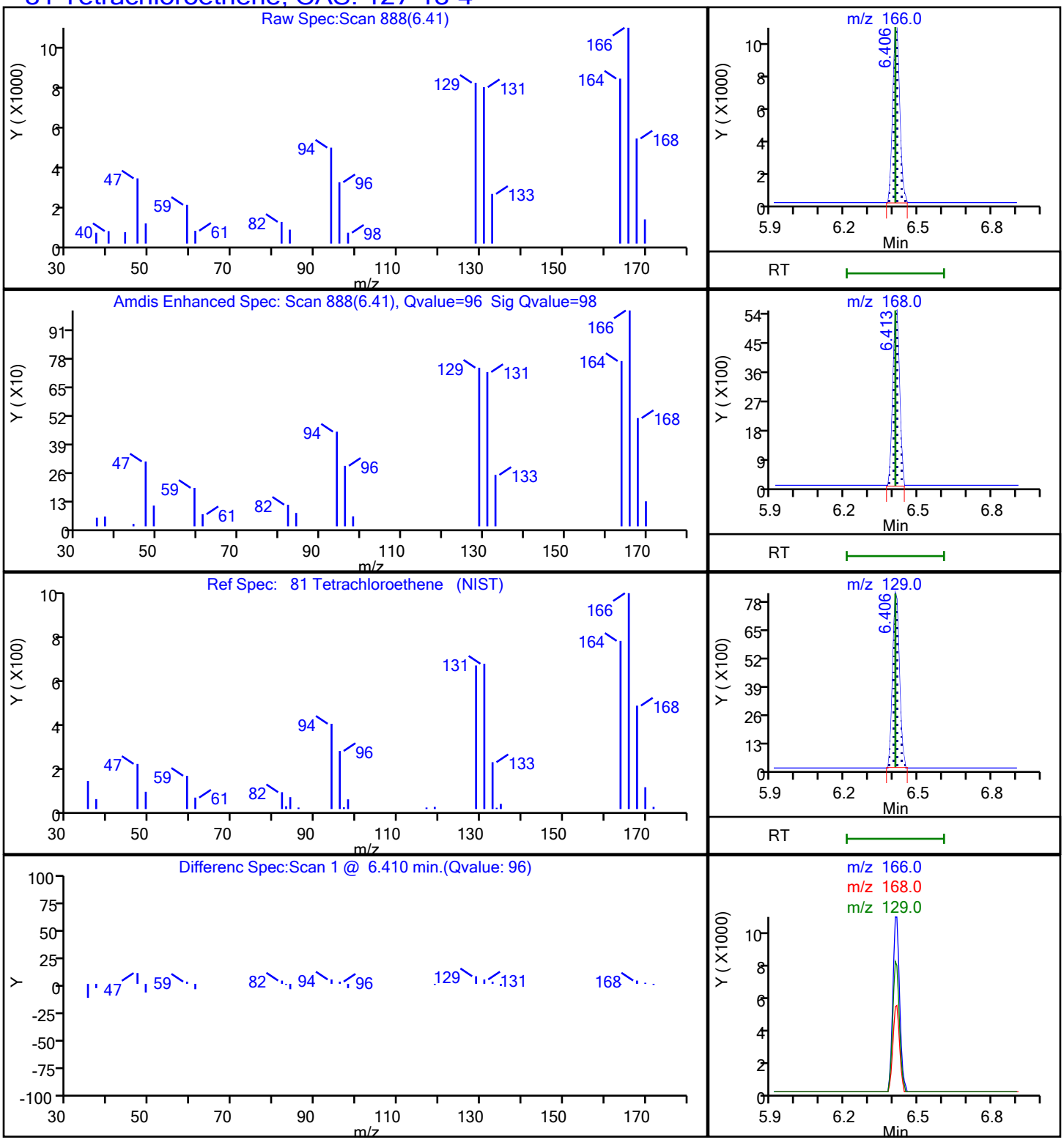
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d

Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21
Client ID:	LR-48-102324		
Operator ID:	AK	ALS Bottle#:	27 Worklist Smp#: 29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



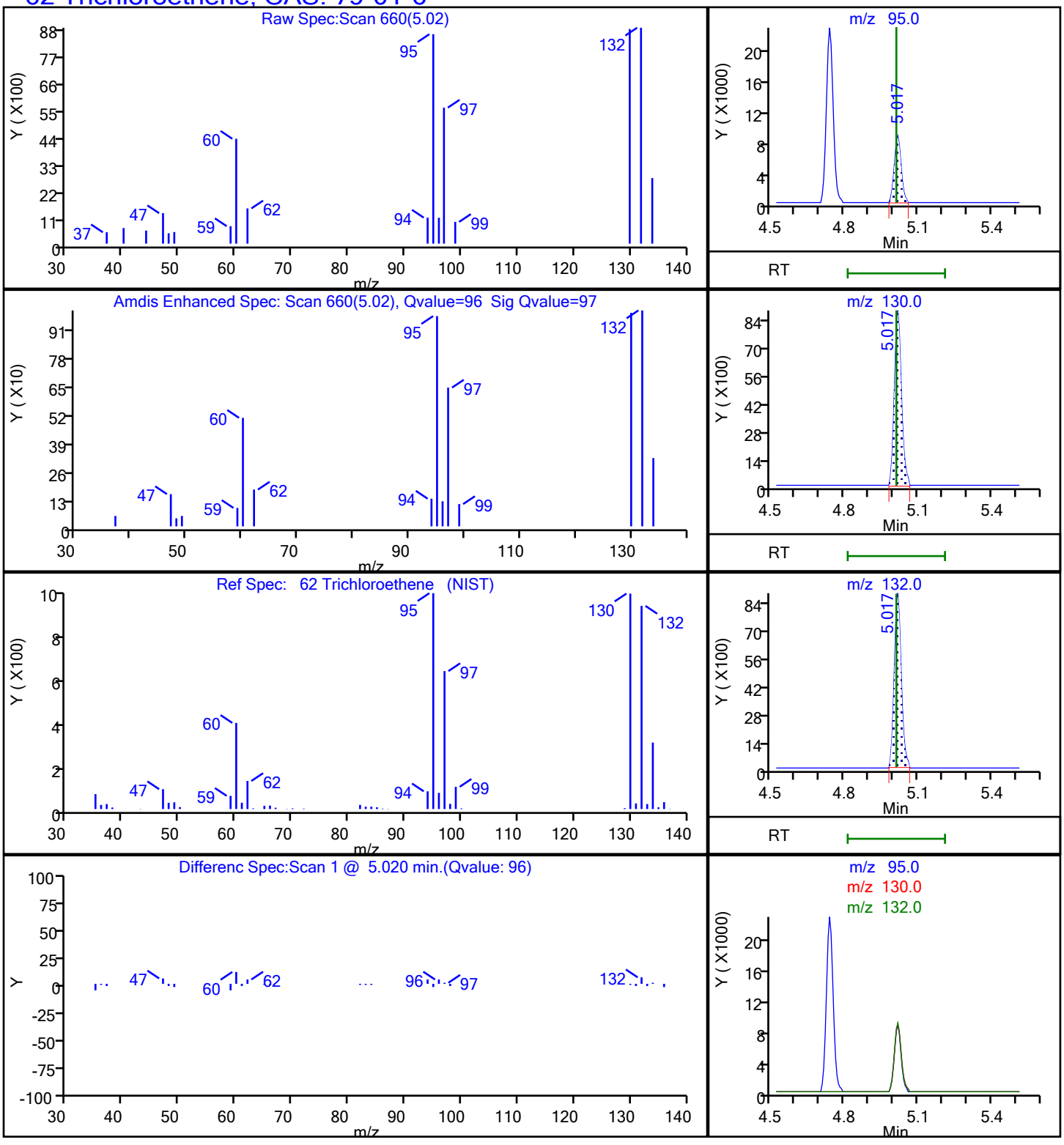
Report Date: 29-Oct-2024 13:58:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d

Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21
Client ID:	LR-48-102324		
Operator ID:	AK	ALS Bottle#:	27 Worklist Smp#: 29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



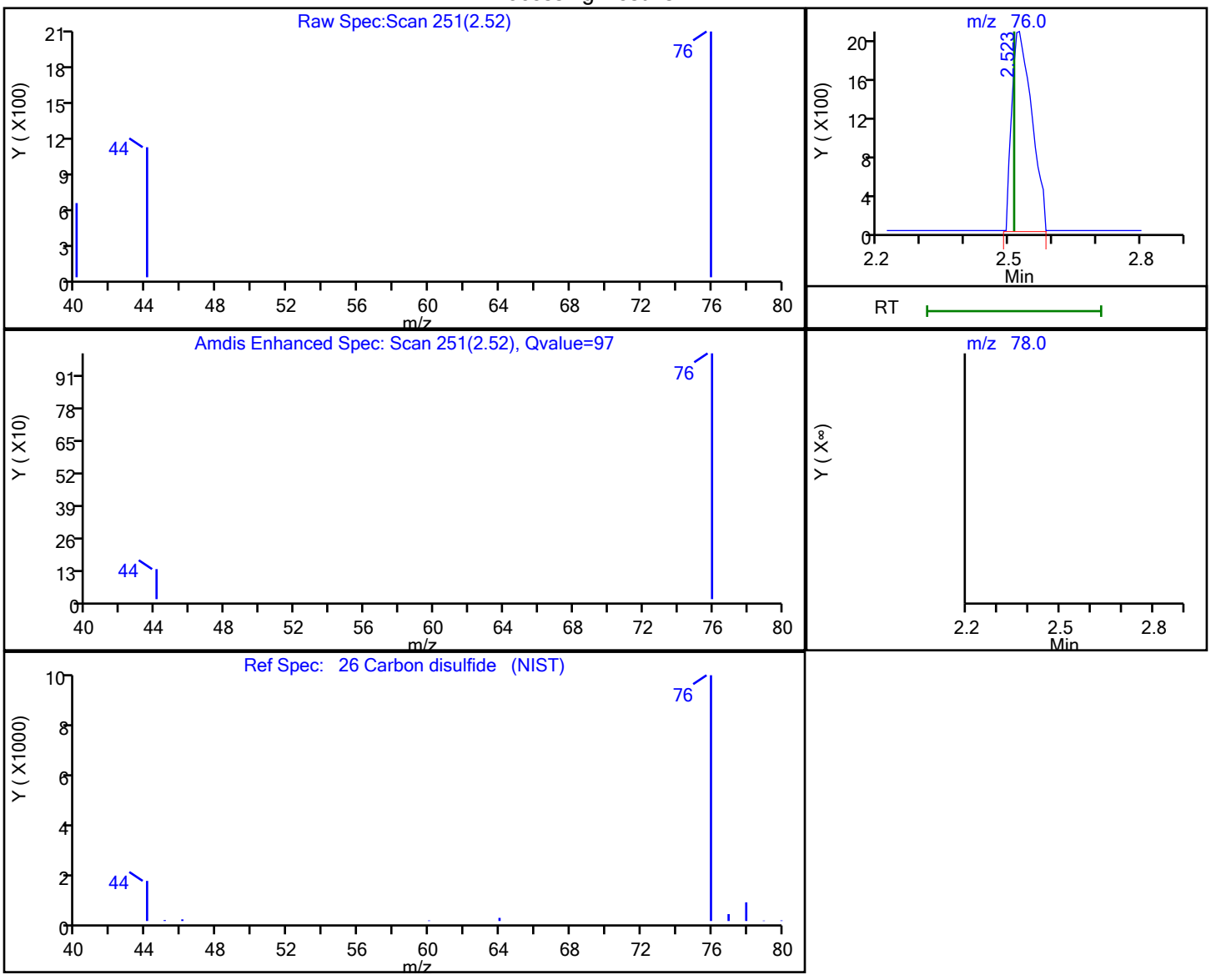
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8362.d				
Injection Date:	28-Oct-2024 21:09:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-21	Lab Sample ID:	480-224872-21		
Client ID:	LR-48-102324				
Operator ID:	AK	ALS Bottle#:	27	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	6590	0.462908
2.51	78.00	0	

Reviewer: R3QB, 29-Oct-2024 13:57:57 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-48-102324 | Lab Sample ID: 480-224872-22

Matrix: Water | Lab File ID: D8363.d

Analysis Method: 8260C | Date Collected: 10/23/2024 15:02

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 21:31

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.2		1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8363.d
Lims ID: 480-224872-A-22
Client ID: R-48-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:31:30 ALS Bottle#: 28 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-22
Misc. Info.: 480-0120860-030
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:15 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	92246	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	195397	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.991	0.001	95	224630	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.007	92	170074	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	99	95406	28.4	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	465771	24.7	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83		4.120				ND	
55 Carbon tetrachloride	117		4.334				ND	
57 Benzene	78	4.517	4.511	0.006	94	20024	1.22	
62 Trichloroethene	95		5.010				ND	
74 Toluene	92		5.986				ND	
81 Tetrachloroethene	166		6.407				ND	
87 Chlorobenzene	112	7.114	7.114	0.006	95	8084	0.6385	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

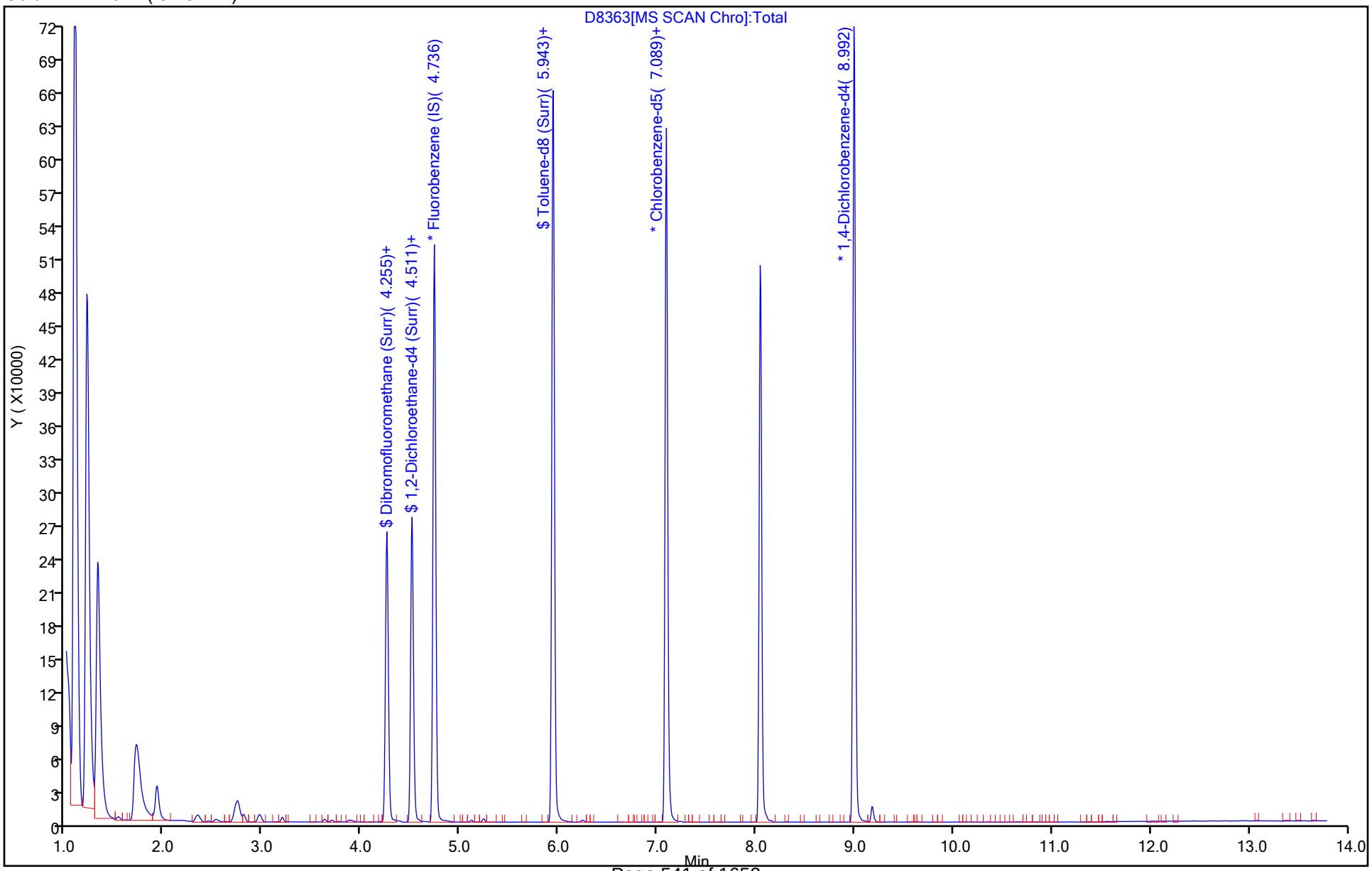
Report Date: 29-Oct-2024 13:58:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8363.d

Injection Date:	28-Oct-2024 21:31:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-22	Lab Sample ID:	480-224872-22	Worklist Smp#:	30
Client ID:	R-48-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8363.d
Lims ID: 480-224872-A-22
Client ID: R-48-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:31:30 ALS Bottle#: 28 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-22
Misc. Info.: 480-0120860-030
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:15 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.70
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.4	113.46
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.80

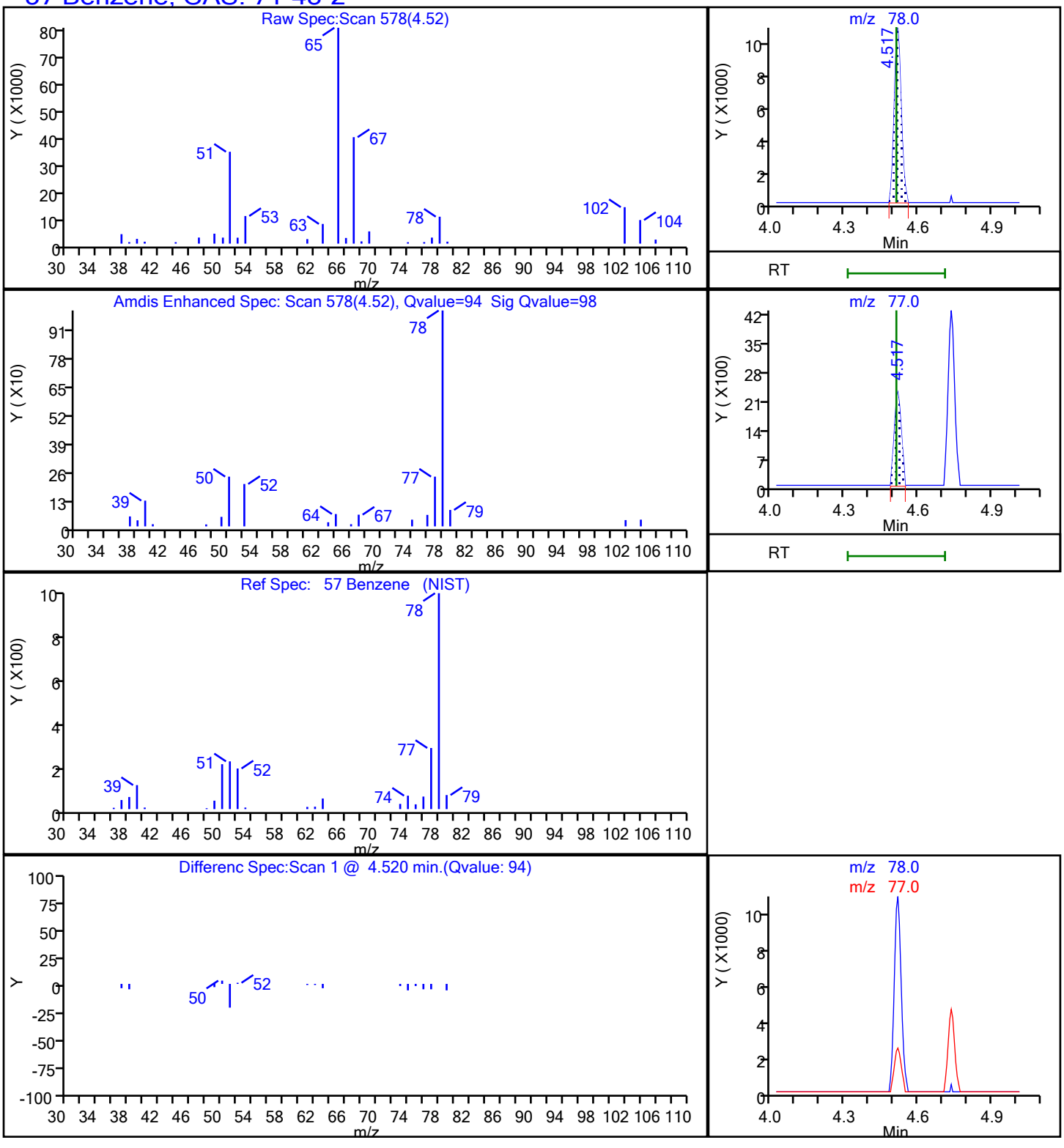
Report Date: 29-Oct-2024 13:58:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8363.d

Injection Date:	28-Oct-2024 21:31:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-22	Lab Sample ID:	480-224872-22		
Client ID:	R-48-102324				
Operator ID:	AK	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2



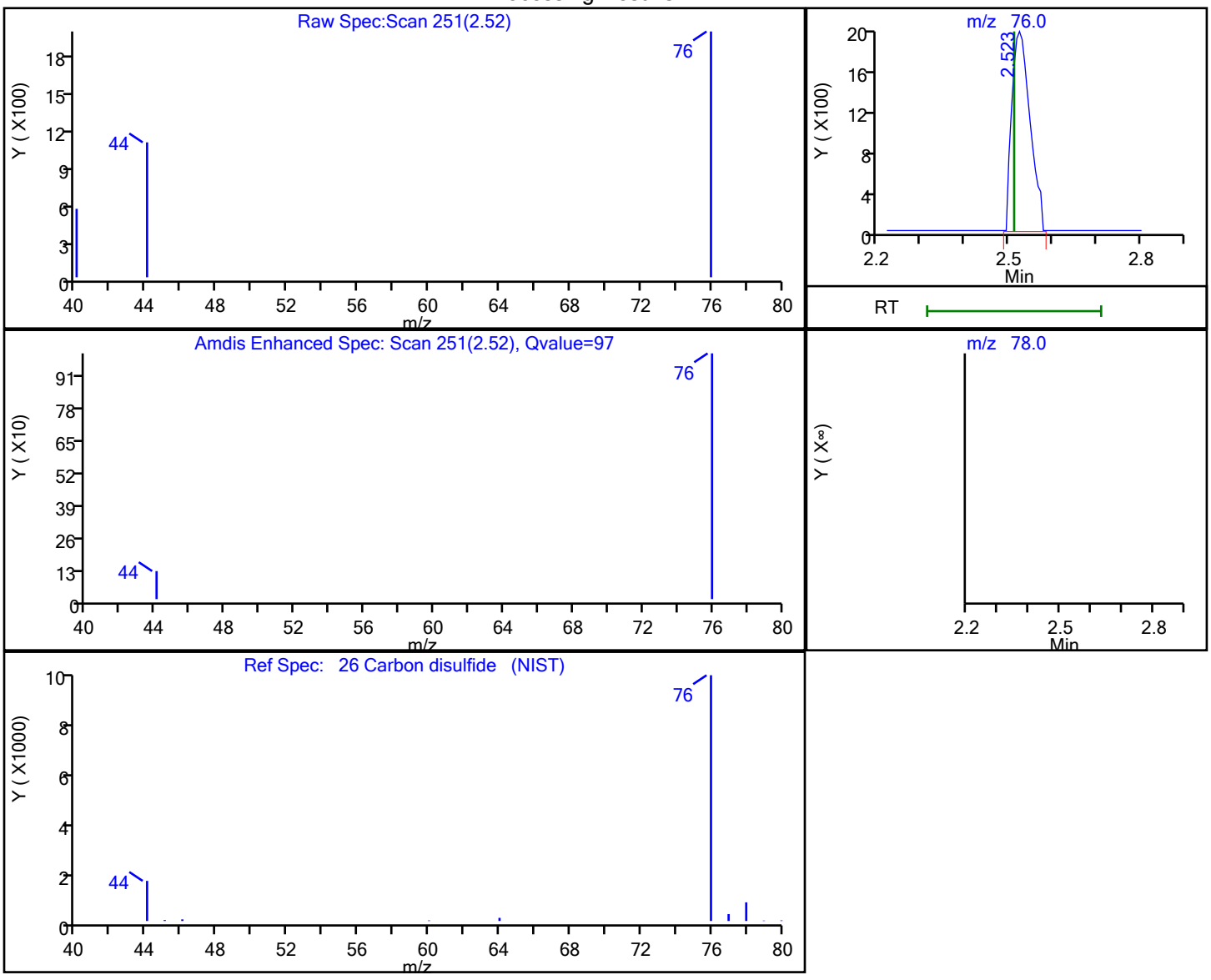
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8363.d				
Injection Date:	28-Oct-2024 21:31:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-22	Lab Sample ID:	480-224872-22		
Client ID:	R-48-102324				
Operator ID:	AK	ALS Bottle#:	28	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	5716	0.412483
2.51	78.00	0	

Reviewer: R3QB, 29-Oct-2024 13:58:10 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-19B-102324 | Lab Sample ID: 480-224872-23

Matrix: Water | Lab File ID: D8364.d

Analysis Method: 8260C | Date Collected: 10/23/2024 15:29

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 21:53

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.98	J	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	21		1.0	0.27
108-90-7	Chlorobenzene	59		1.0	0.75
67-66-3	Chloroform	3.4		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.71	J	1.0	0.36
108-88-3	Toluene	0.71	J	1.0	0.51
79-01-6	Trichloroethene	6.3		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d
Lims ID: 480-224872-A-23
Client ID: W-19B-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:53:30 ALS Bottle#: 29 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-23
Misc. Info.: 480-0120860-031
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.730	0.006	98	92828	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	202159	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	229617	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	92	171015	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	99	95914	28.3	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	471901	24.2	
26 Carbon disulfide	76		2.511				ND	U
30 Methylene Chloride	84		2.804				ND	7
50 Chloroform	83	4.126	4.120	0.006	94	30508	3.44	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	138250	21.5	
57 Benzene	78	4.517	4.511	0.006	94	16263	0.9818	
62 Trichloroethene	95	5.016	5.010	0.006	96	30064	6.34	
74 Toluene	92	5.992	5.991	0.006	97	7901	0.7096	
81 Tetrachloroethene	166	6.413	6.412	0.006	90	3794	0.7051	
87 Chlorobenzene	112	7.114	7.114	0.006	97	769795	58.8	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

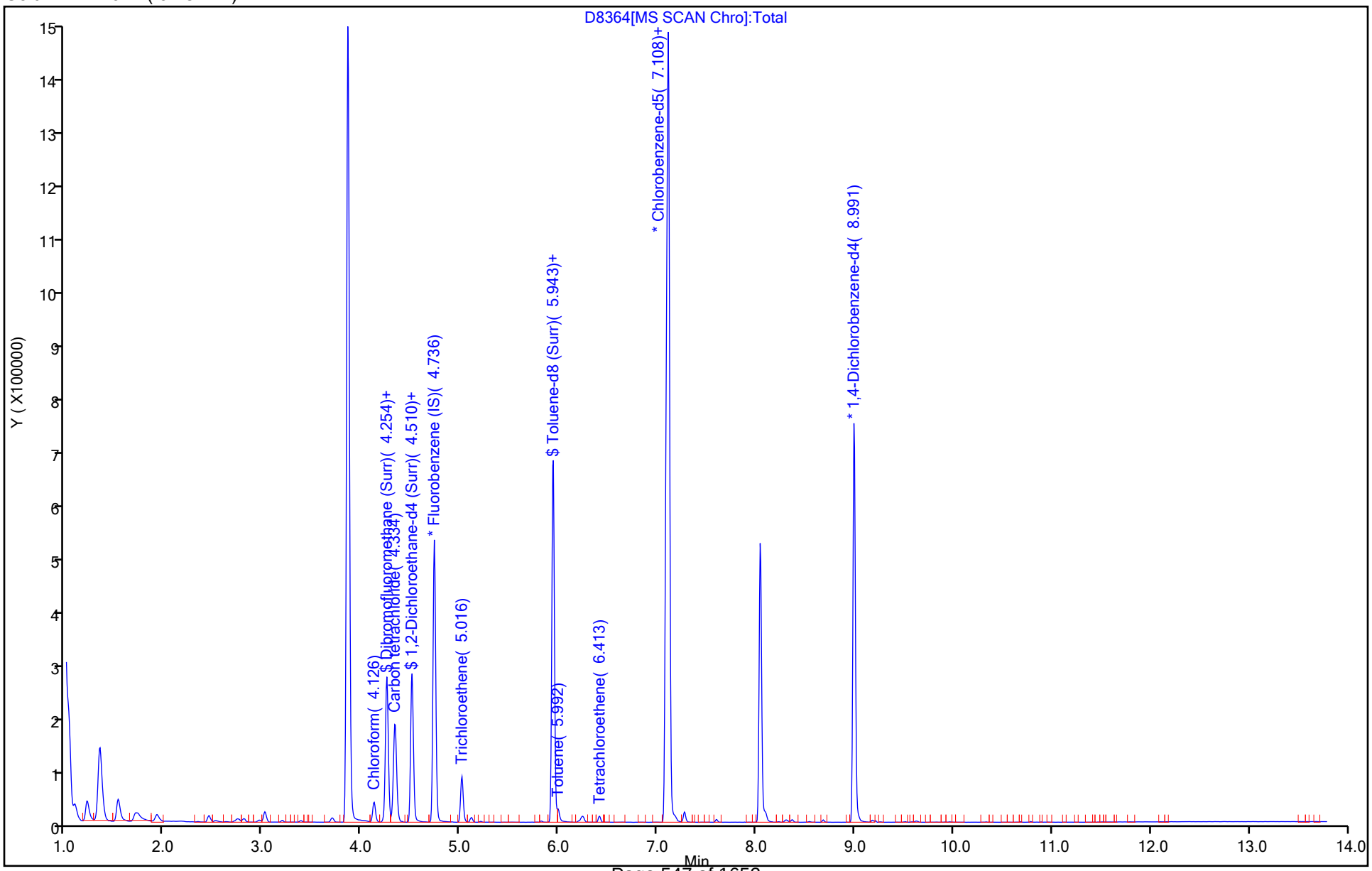
Report Date: 29-Oct-2024 13:58:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23	Worklist Smp#:	31
Client ID:	W-19B-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d
Lims ID: 480-224872-A-23
Client ID: W-19B-102324
Sample Type: Client
Inject. Date: 28-Oct-2024 21:53:30 ALS Bottle#: 29 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-23
Misc. Info.: 480-0120860-031
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.61
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.35
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.76

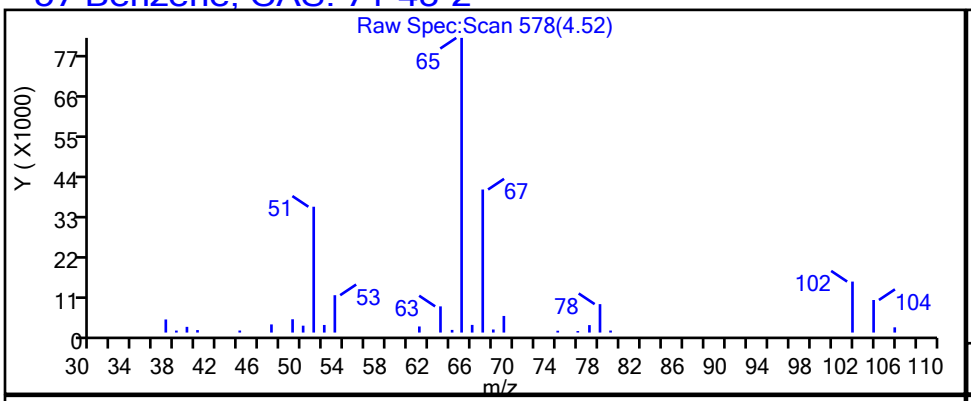
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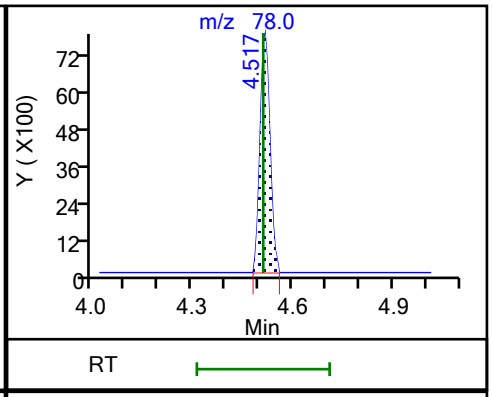
Eurofins Buffalo

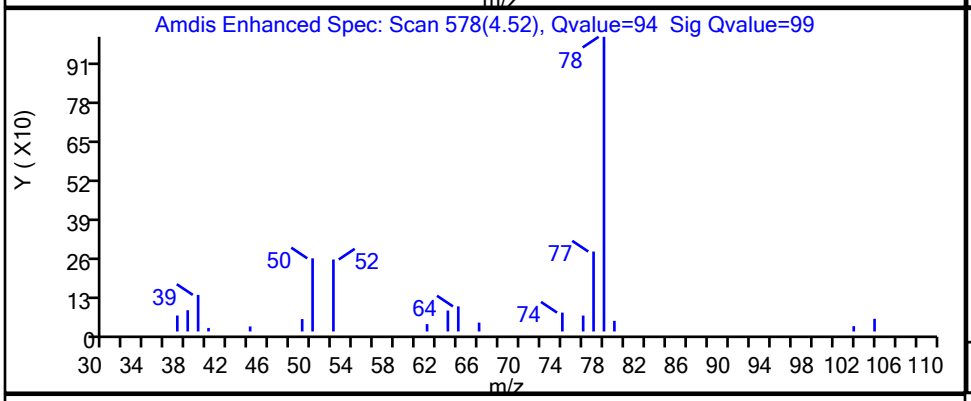
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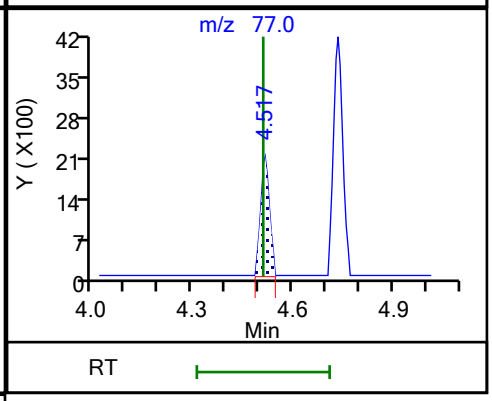
Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

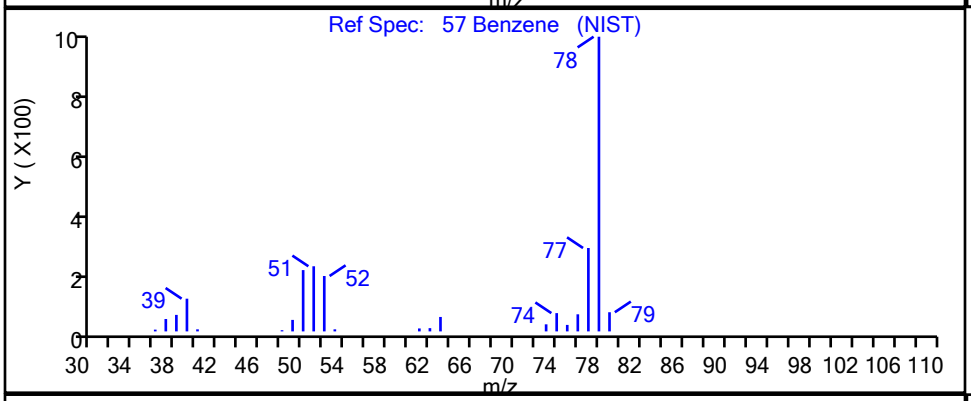
57 Benzene, CAS: 71-43-2

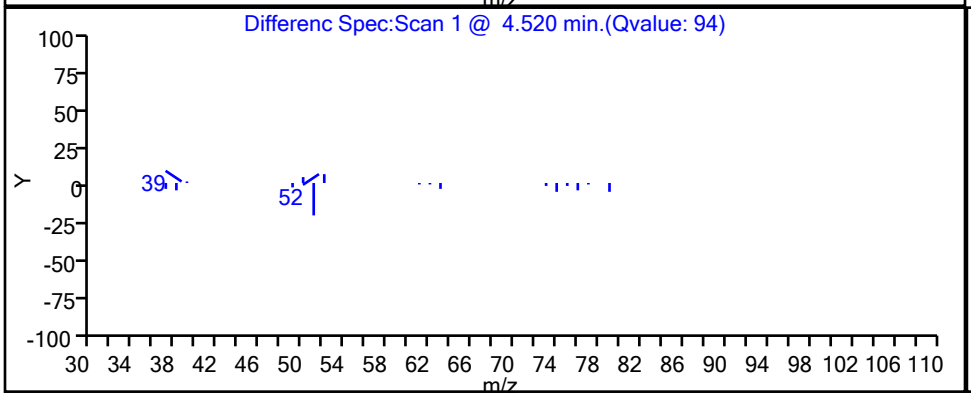


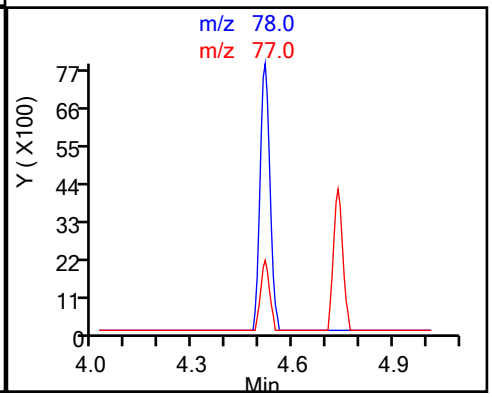












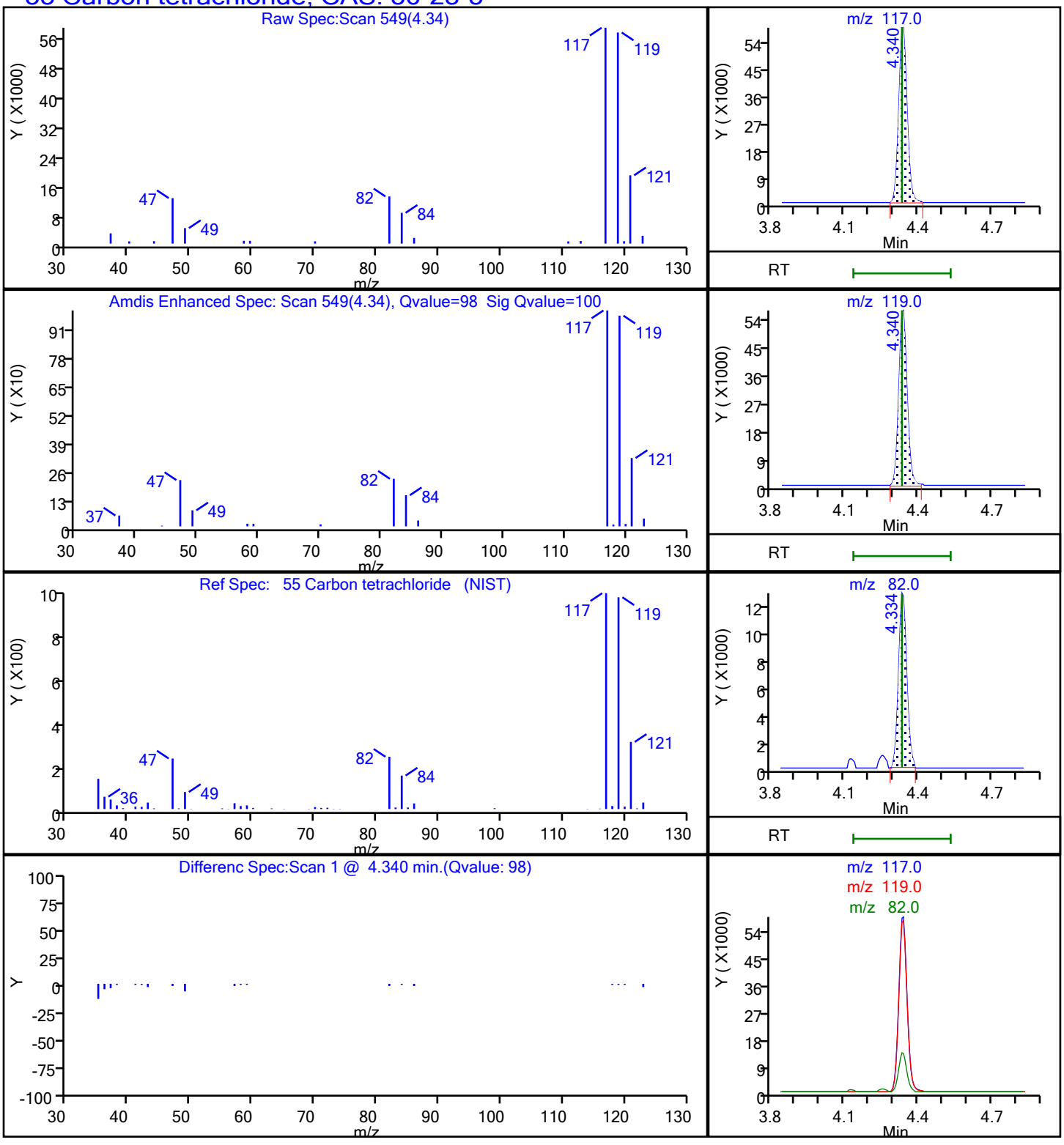
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



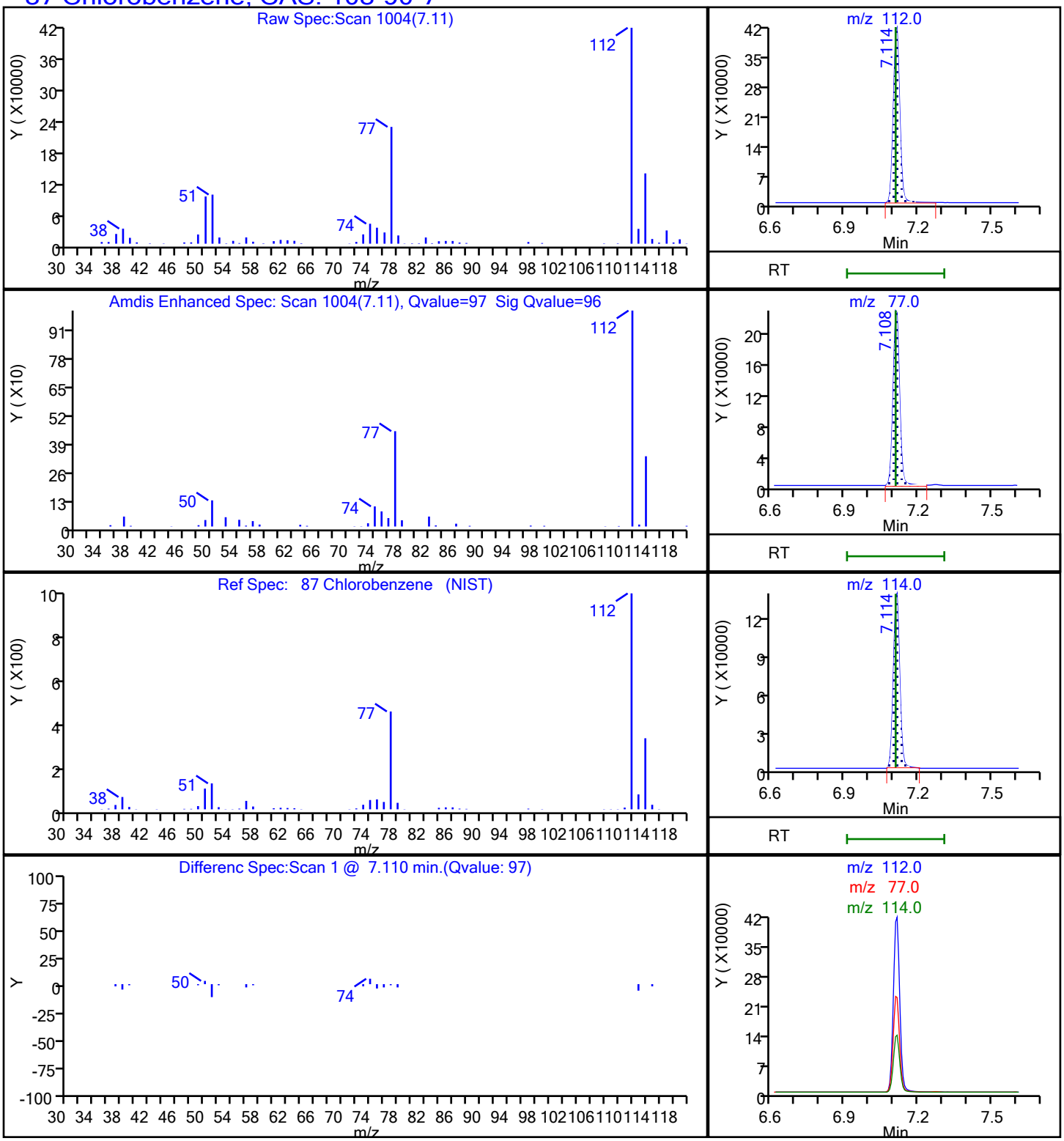
Report Date: 29-Oct-2024 13:58:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



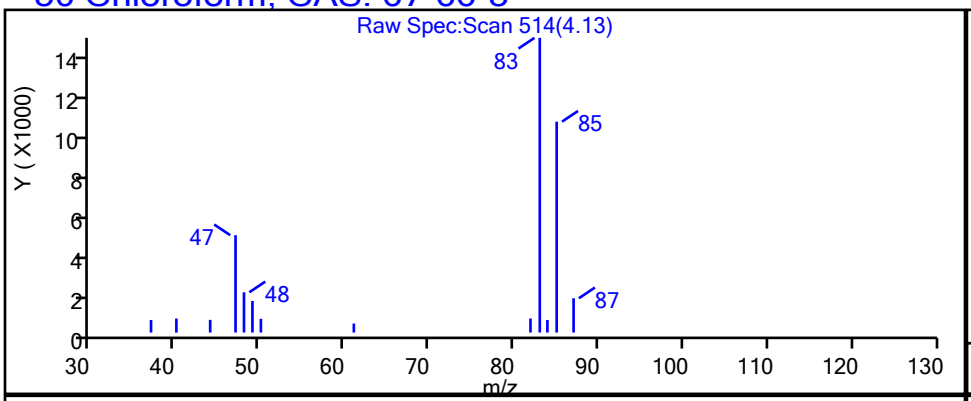
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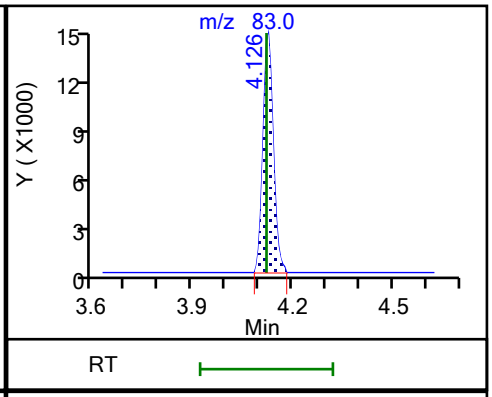
Eurofins Buffalo

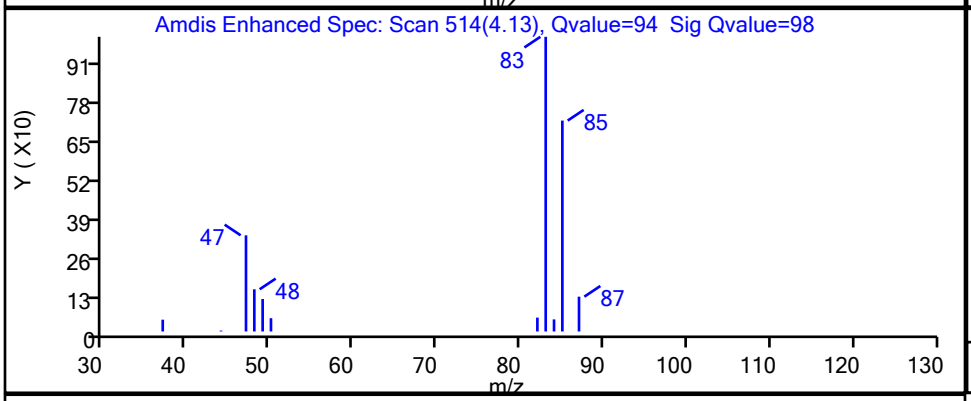
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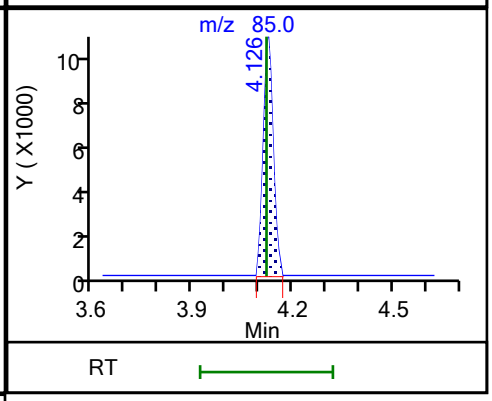
Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

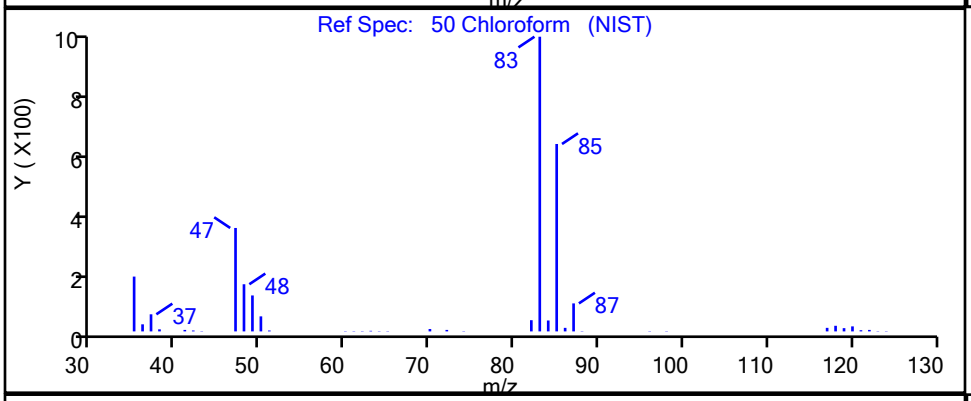
50 Chloroform, CAS: 67-66-3

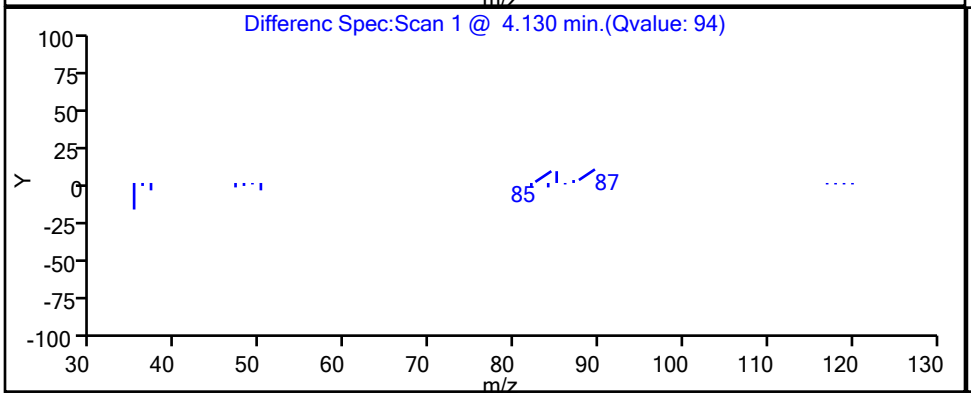


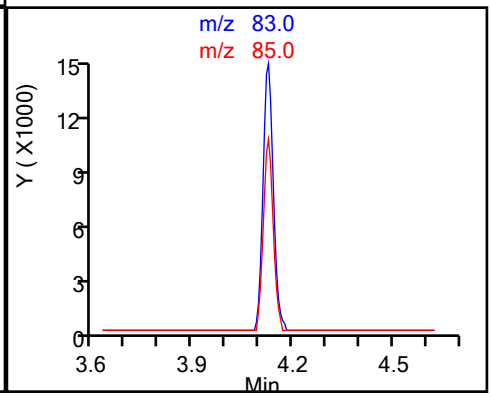












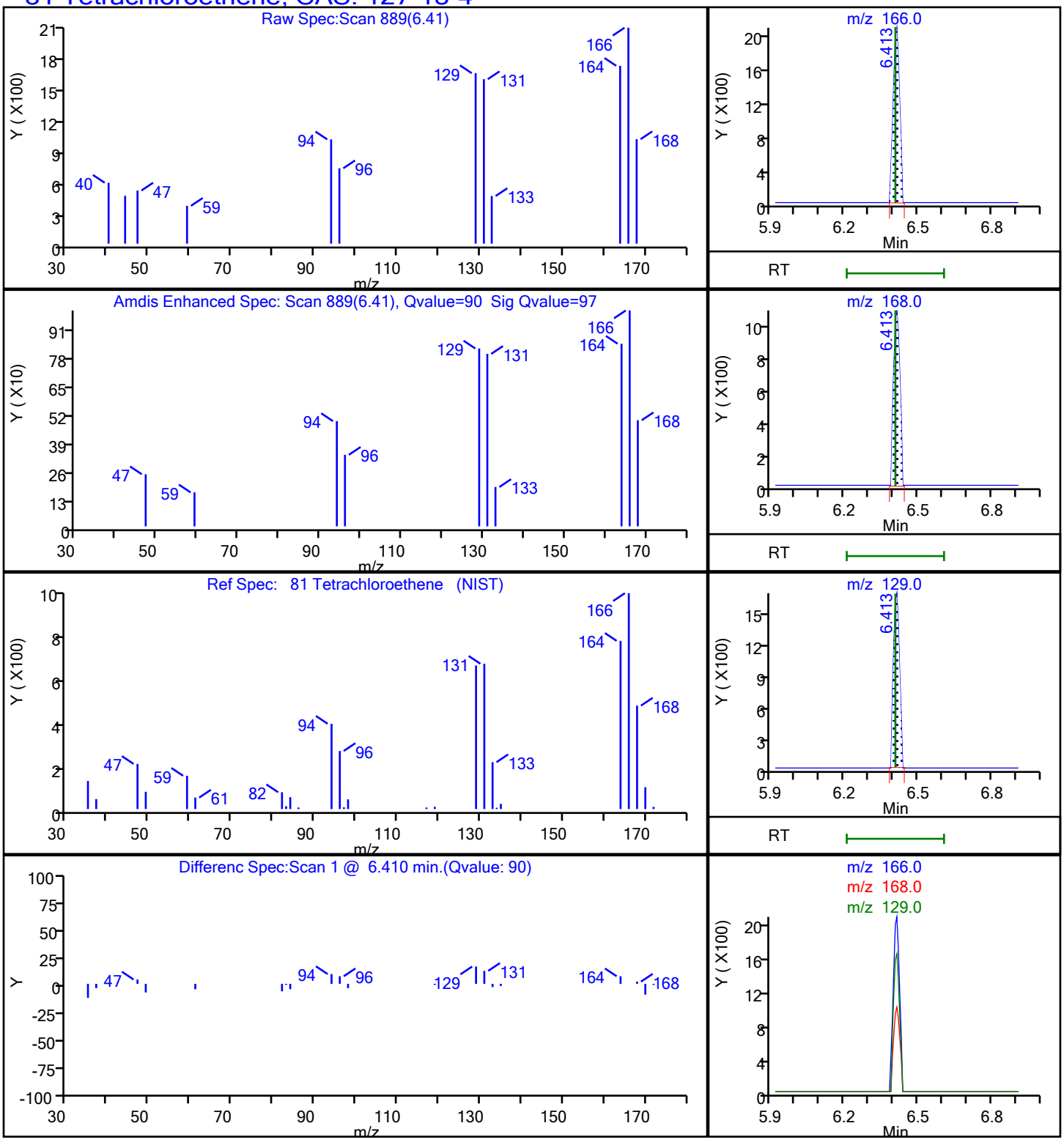
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



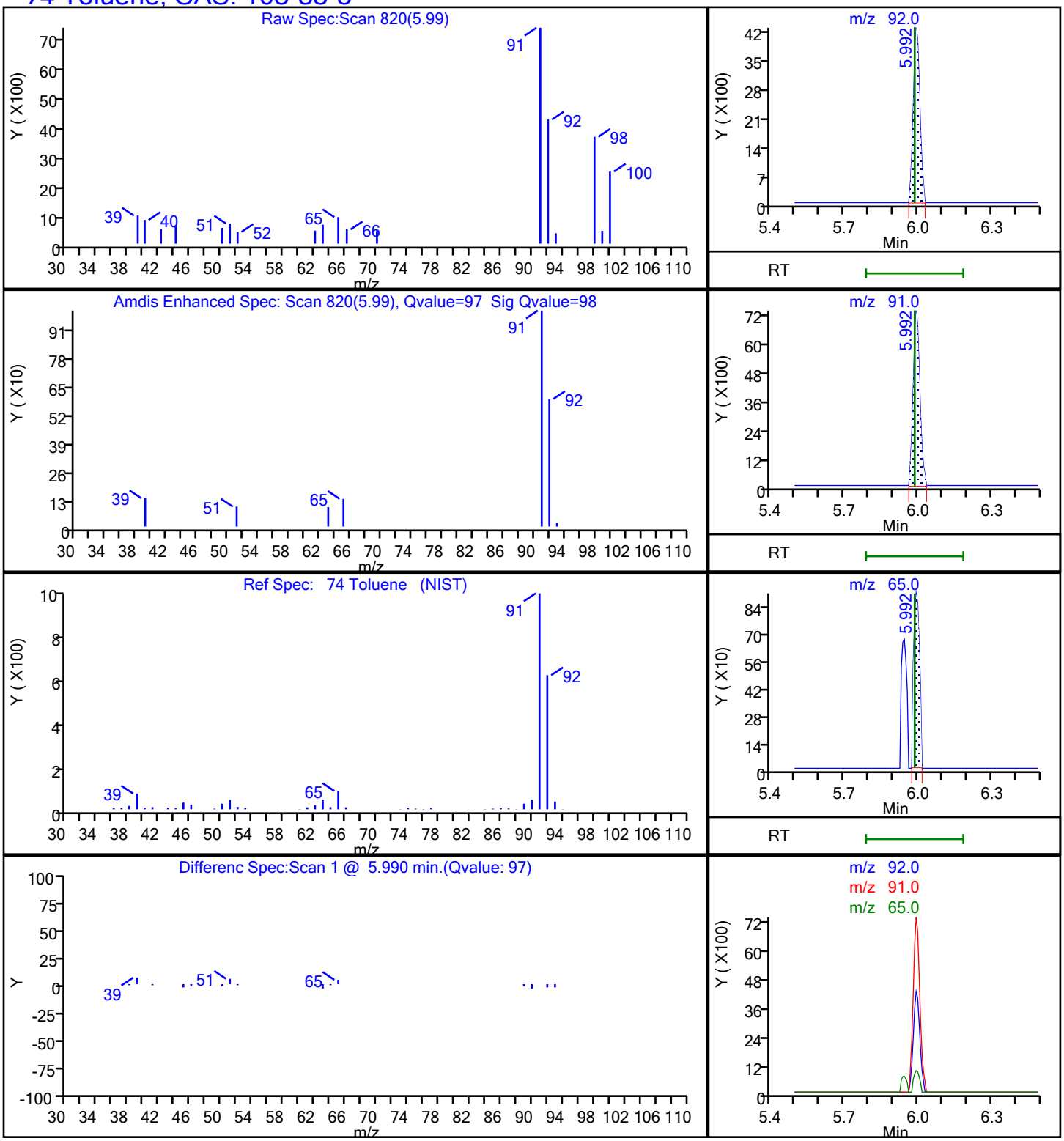
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23
Client ID:	W-19B-102324		
Operator ID:	AK	ALS Bottle#:	29 Worklist Smp#: 31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

74 Toluene, CAS: 108-88-3



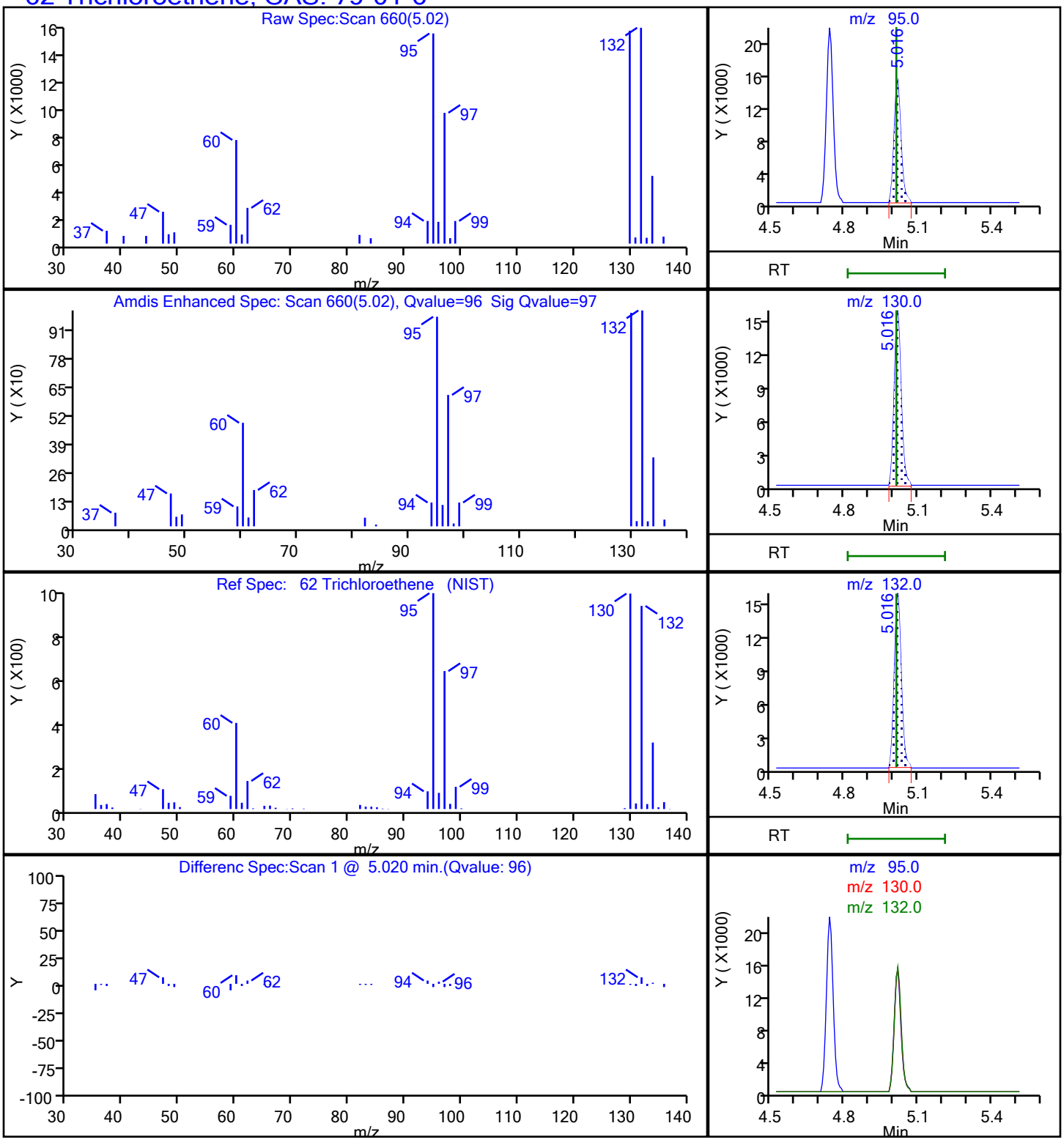
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8364.d

Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23
Client ID:	W-19B-102324		
Operator ID:	AK	ALS Bottle#:	29 Worklist Smp#: 31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



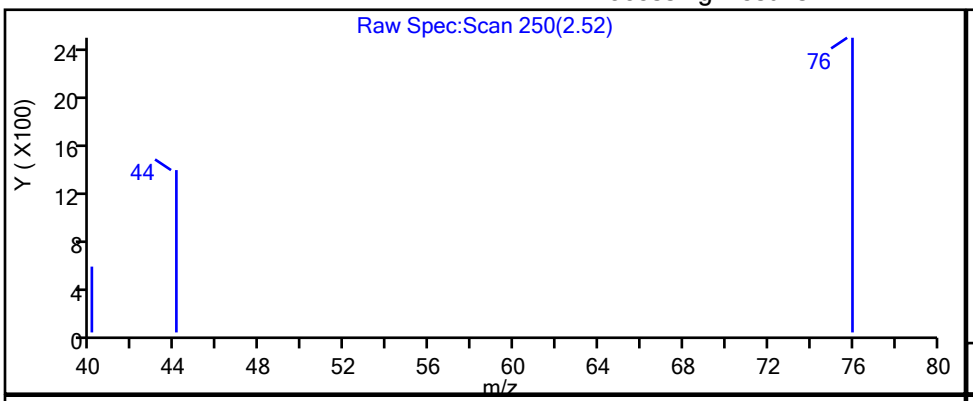
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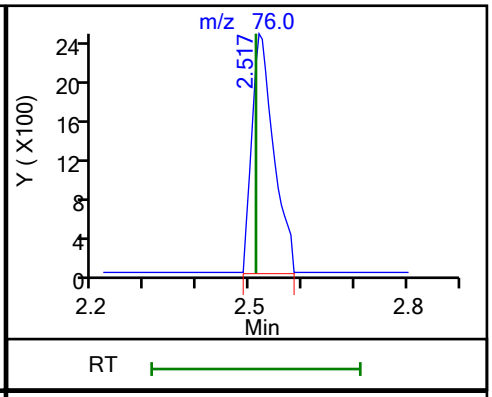
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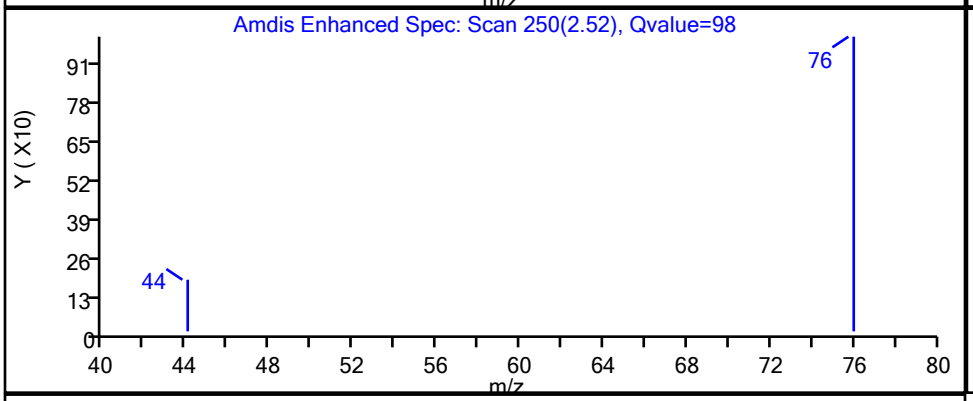
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Injection Date:	28-Oct-2024 21:53:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-23	Lab Sample ID:	480-224872-23		
Client ID:	W-19B-102324				
Operator ID:	AK	ALS Bottle#:	29	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

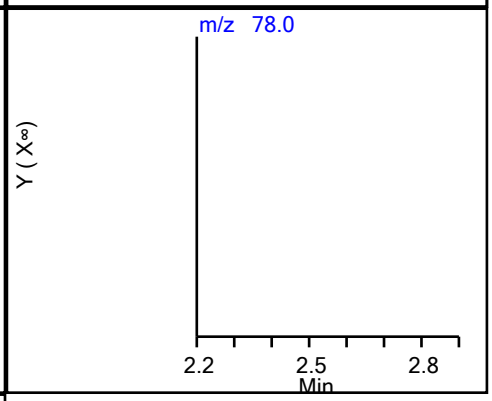
26 Carbon disulfide, CAS: 75-15-0

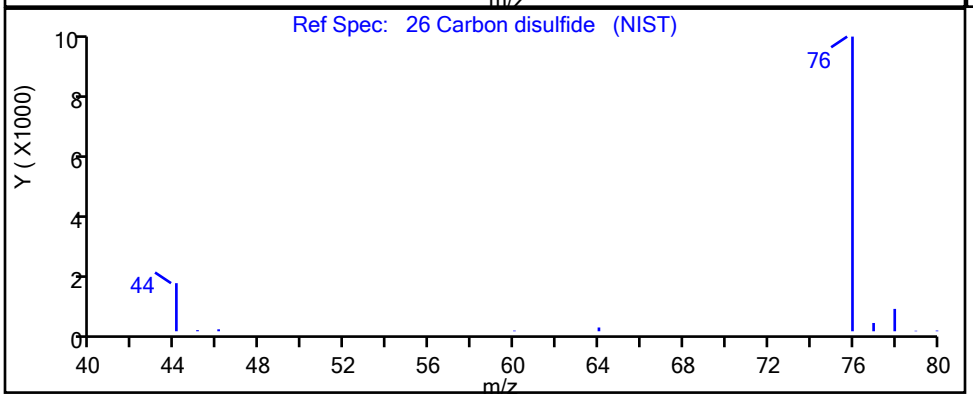
Processing Results











RT	Mass	Response	Amount
2.52	76.00	7154	0.513017
2.51	78.00	0	

Reviewer: R3QB, 29-Oct-2024 13:58:34 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-19-102324 | Lab Sample ID: 480-224872-24

Matrix: Water | Lab File ID: D8377.d

Analysis Method: 8260C | Date Collected: 10/23/2024 15:37

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 02:41

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:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8.1		2.0	0.82
75-15-0	Carbon disulfide	0.38	U	2.0	0.38
56-23-5	Carbon tetrachloride	21		2.0	0.54
108-90-7	Chlorobenzene	1.5	U	2.0	1.5
67-66-3	Chloroform	18		2.0	0.68
75-09-2	Methylene Chloride	17		2.0	0.88
127-18-4	Tetrachloroethene	1.1	J	2.0	0.72
108-88-3	Toluene	1.0	U	2.0	1.0
79-01-6	Trichloroethene	0.92	U	2.0	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d
Lims ID: 480-224872-A-24
Client ID: R-19-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 02:41:30 ALS Bottle#: 42 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-24
Misc. Info.: 480-0120866-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:04:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	98011	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	195878	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	231175	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.001	93	172142	27.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	94910	26.6	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	480744	25.4	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84	2.816	2.810	0.006	96	44676	8.38	
50 Chloroform	83	4.127	4.126	0.001	95	84979	9.06	
55 Carbon tetrachloride	117	4.340	4.340	0.000	97	72769	10.7	
57 Benzene	78	4.517	4.517	0.000	96	70513	4.03	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.413	0.000	92	2821	0.5411	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

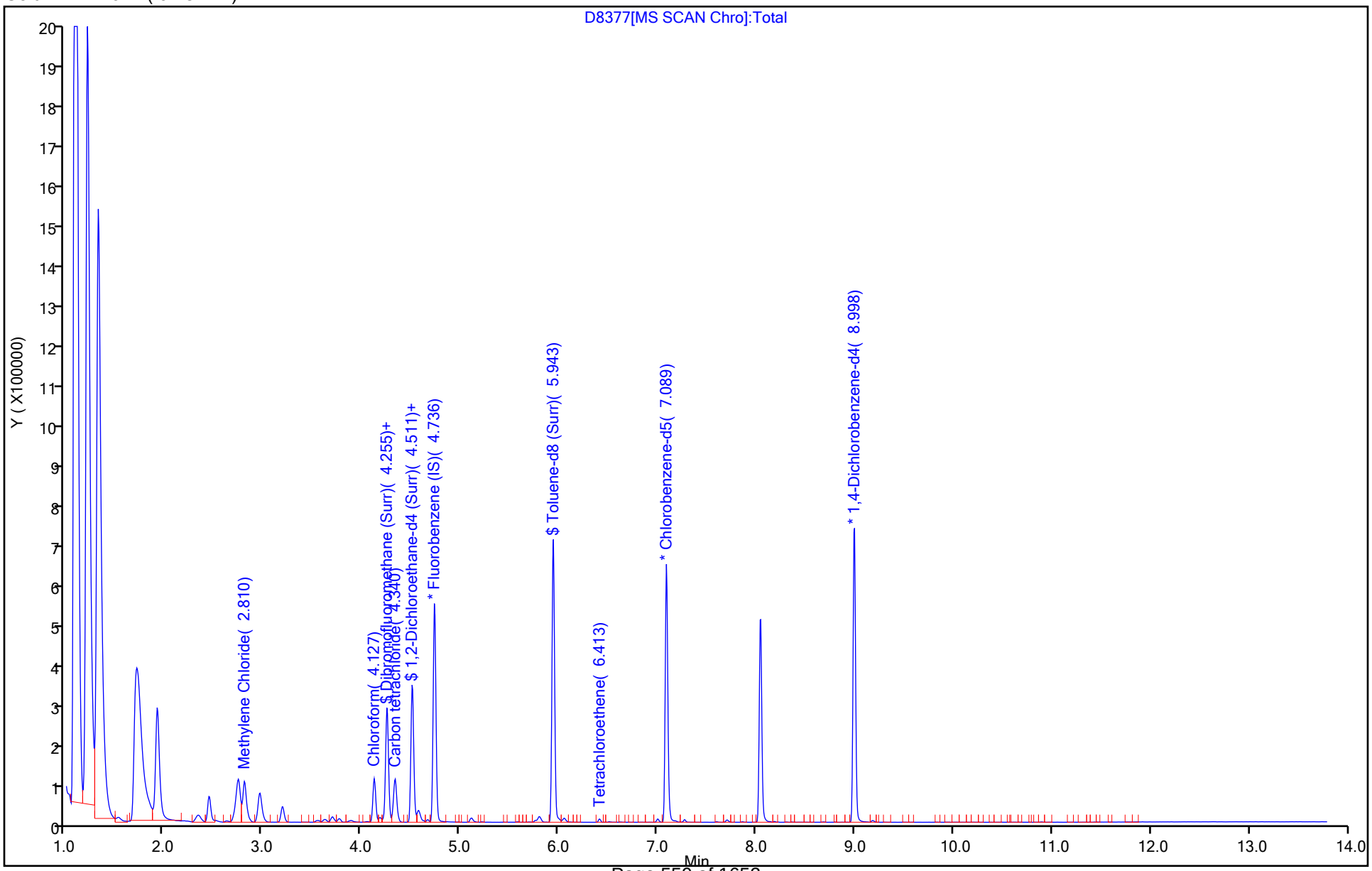
Report Date: 29-Oct-2024 14:04:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d

Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24	Worklist Smp#:	9
Client ID:	R-19-102324				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	42
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d
Lims ID: 480-224872-A-24
Client ID: R-19-102324
Sample Type: Client
Inject. Date: 29-Oct-2024 02:41:30 ALS Bottle#: 42 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-24
Misc. Info.: 480-0120866-009
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:04:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.3	109.27
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.6	106.23
$ 5 Toluene-d8 (Surr)	25.0	25.4	101.73

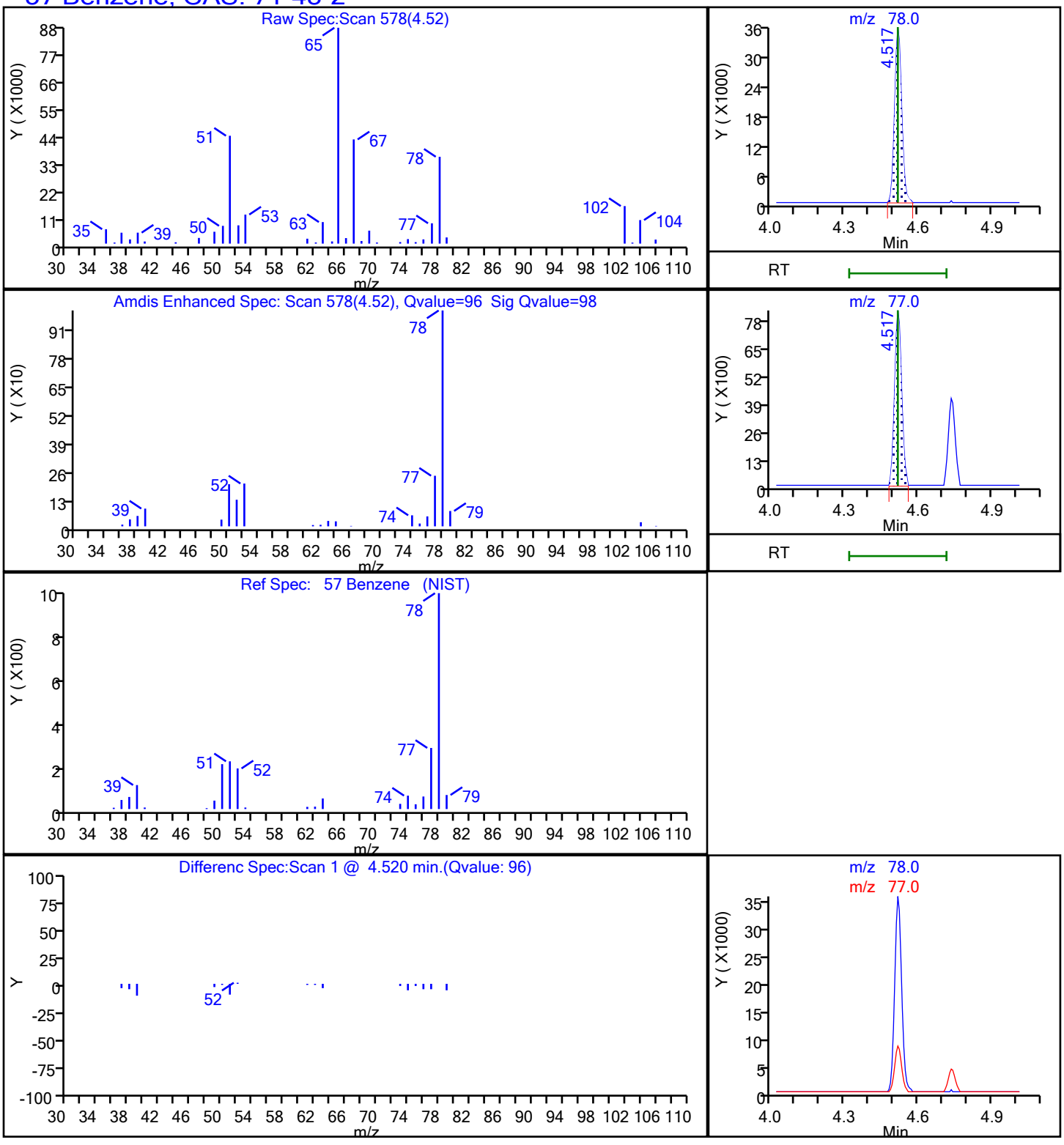
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d

Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2



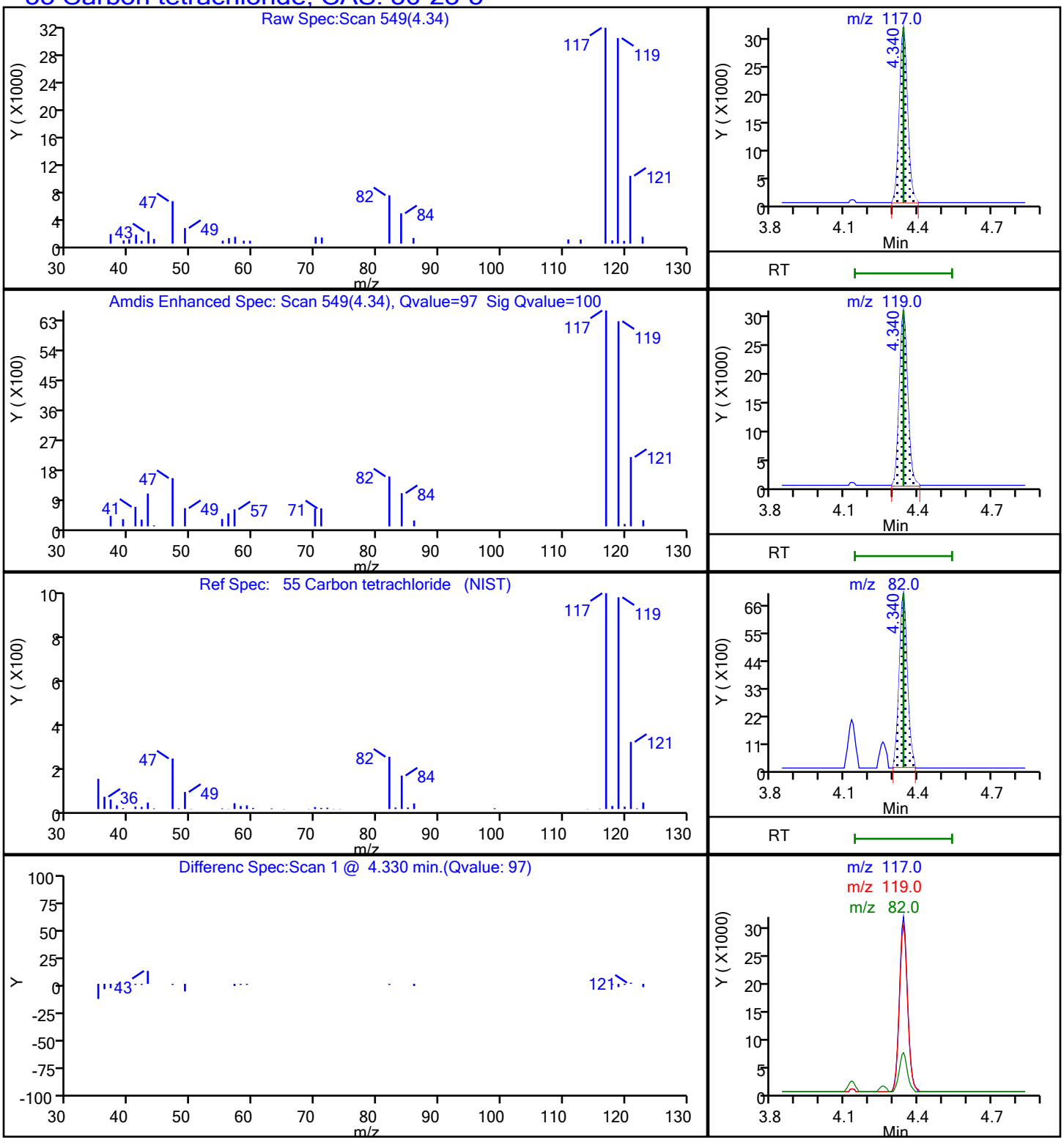
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d

Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



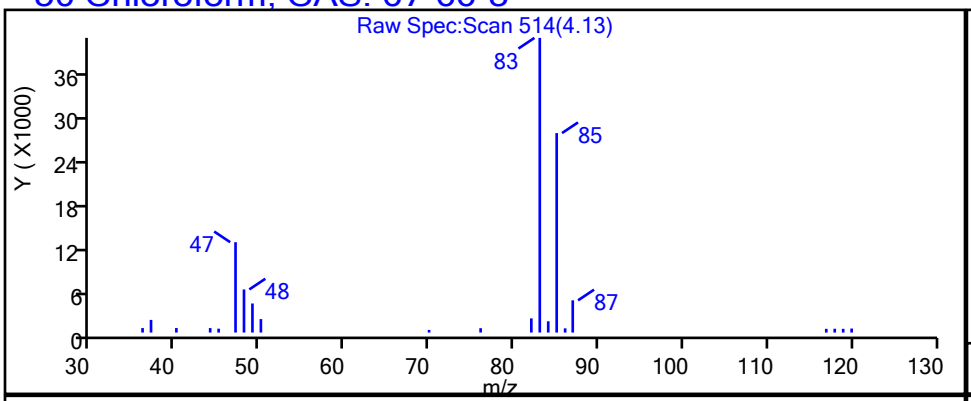
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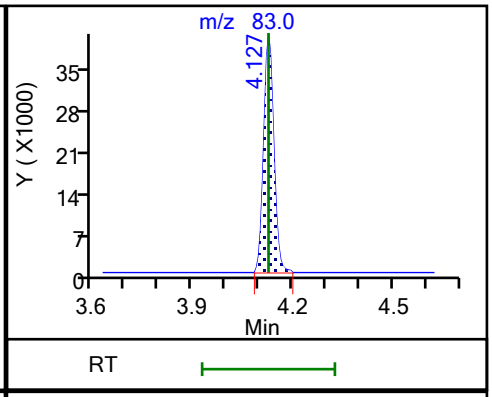
Eurofins Buffalo

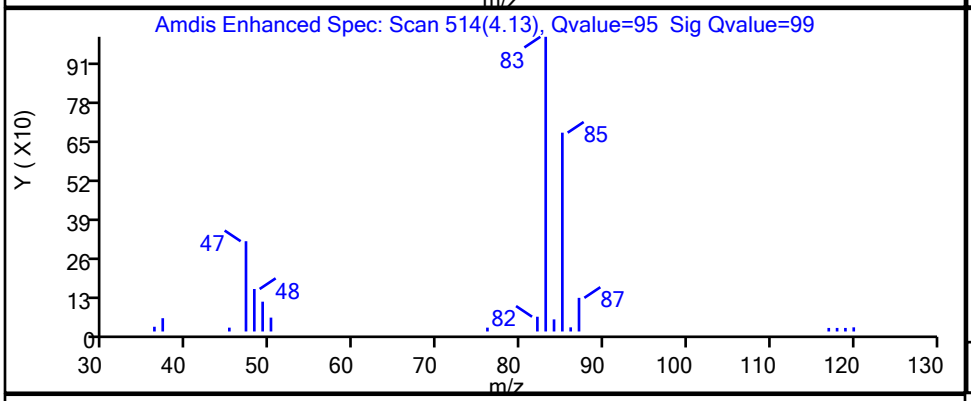
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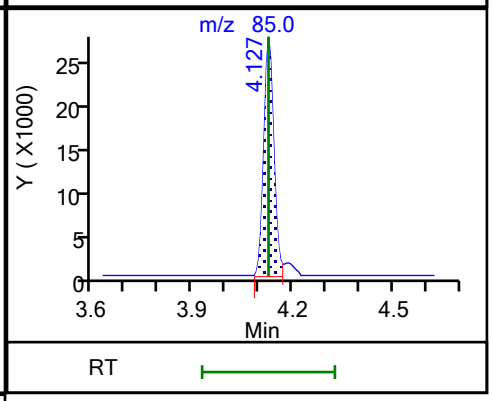
Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

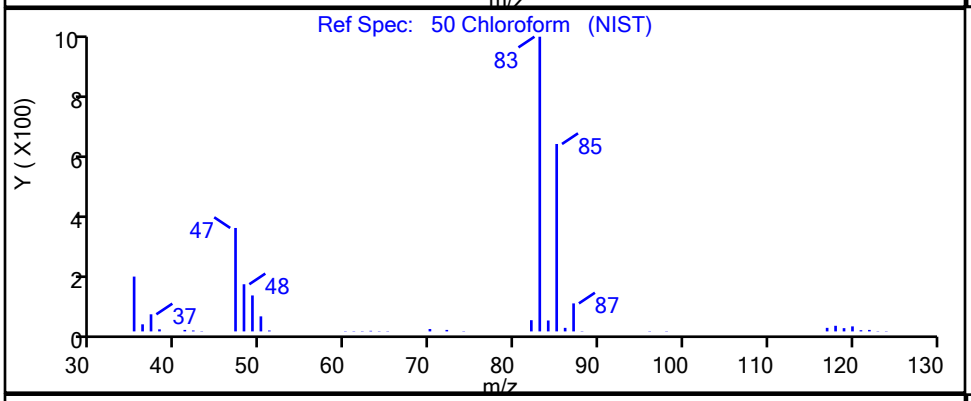
50 Chloroform, CAS: 67-66-3

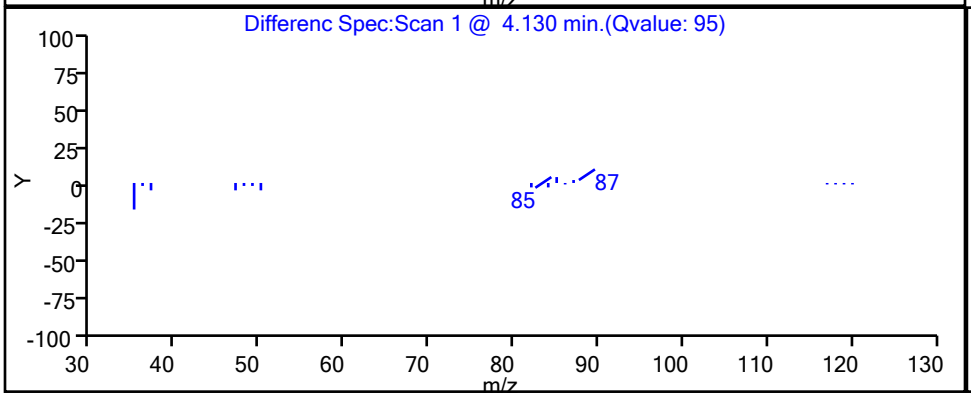


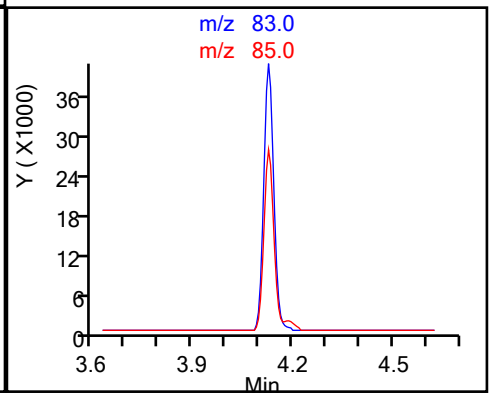












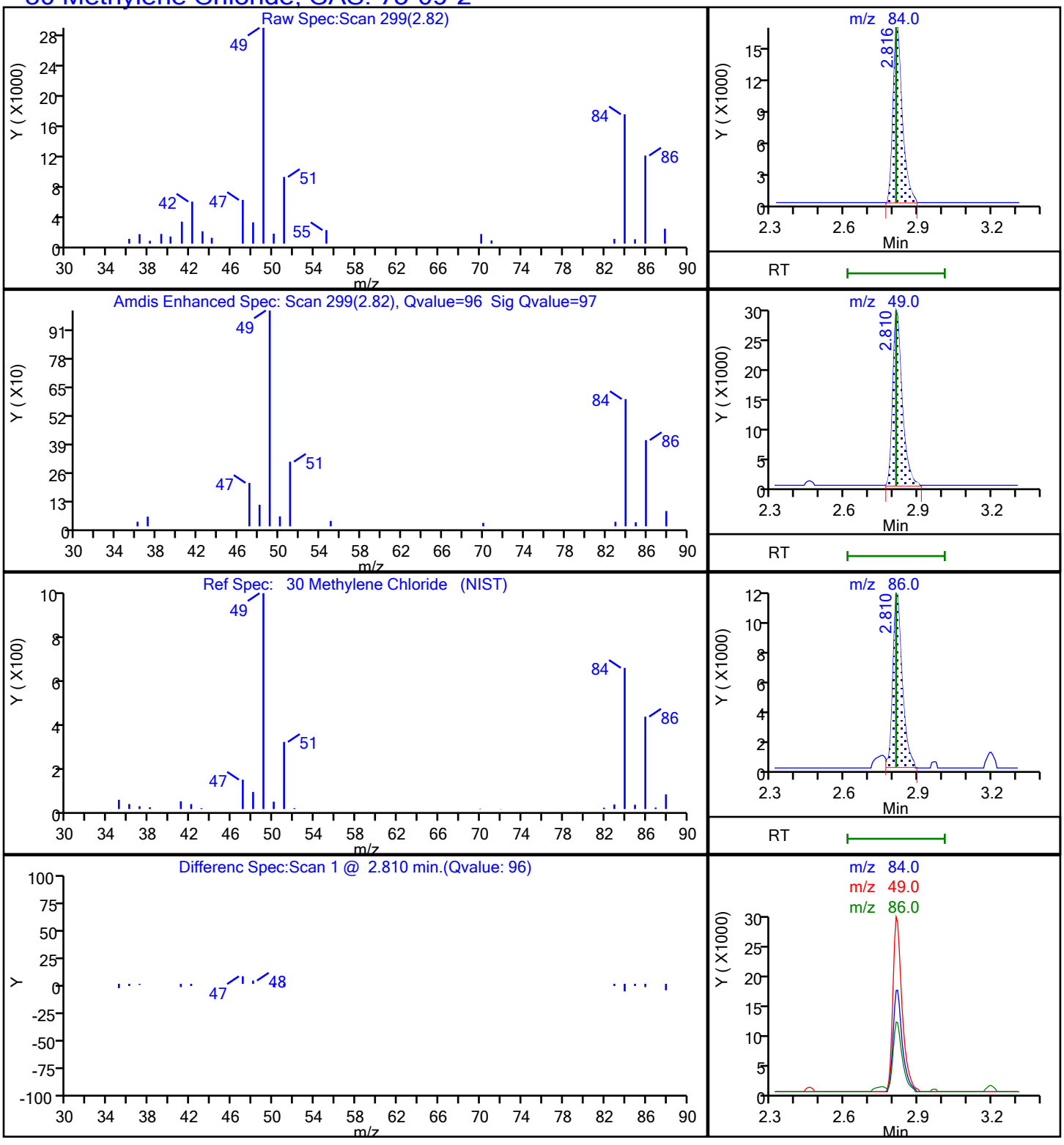
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d

Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



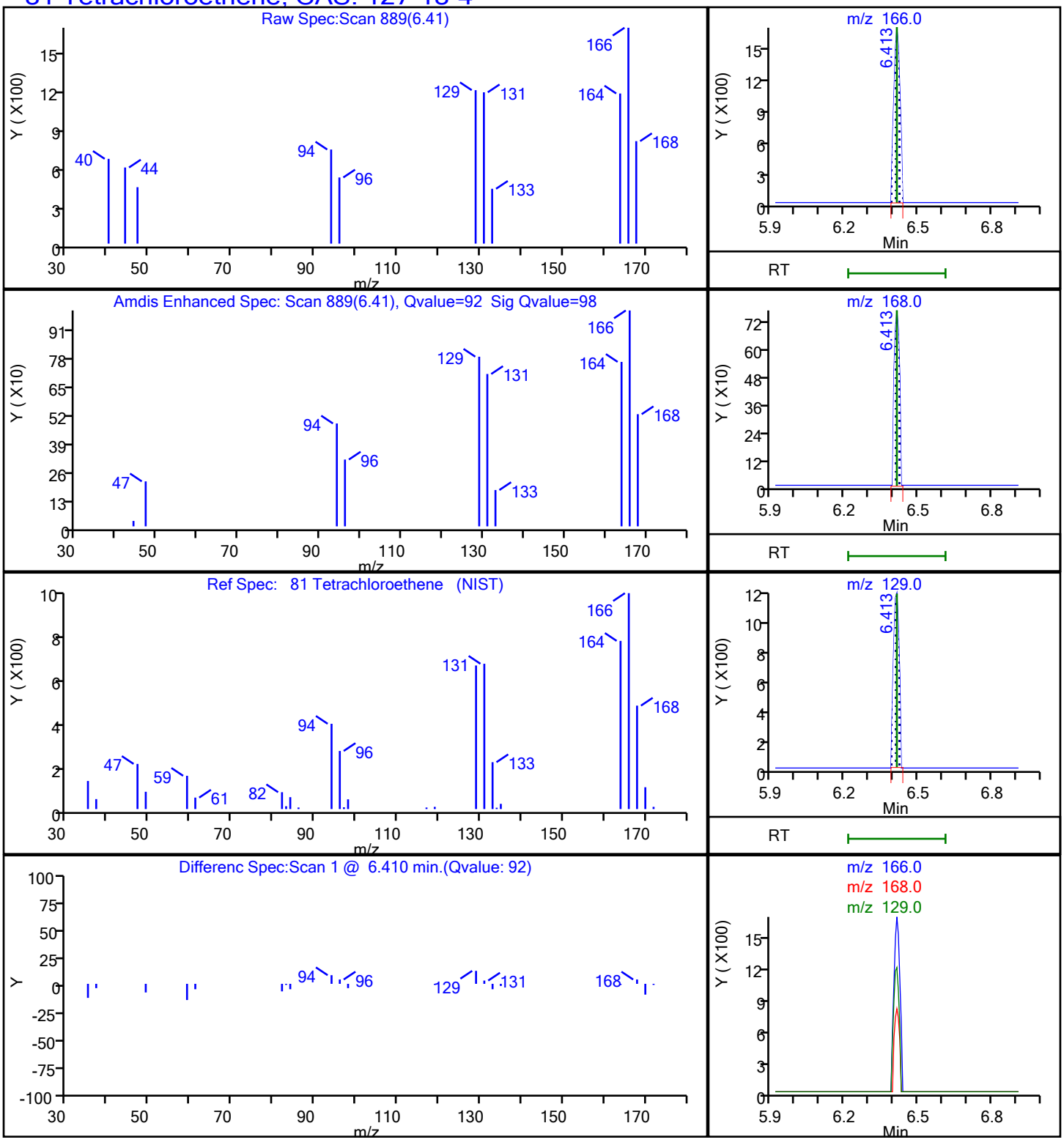
Report Date: 29-Oct-2024 14:04:45 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d

Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



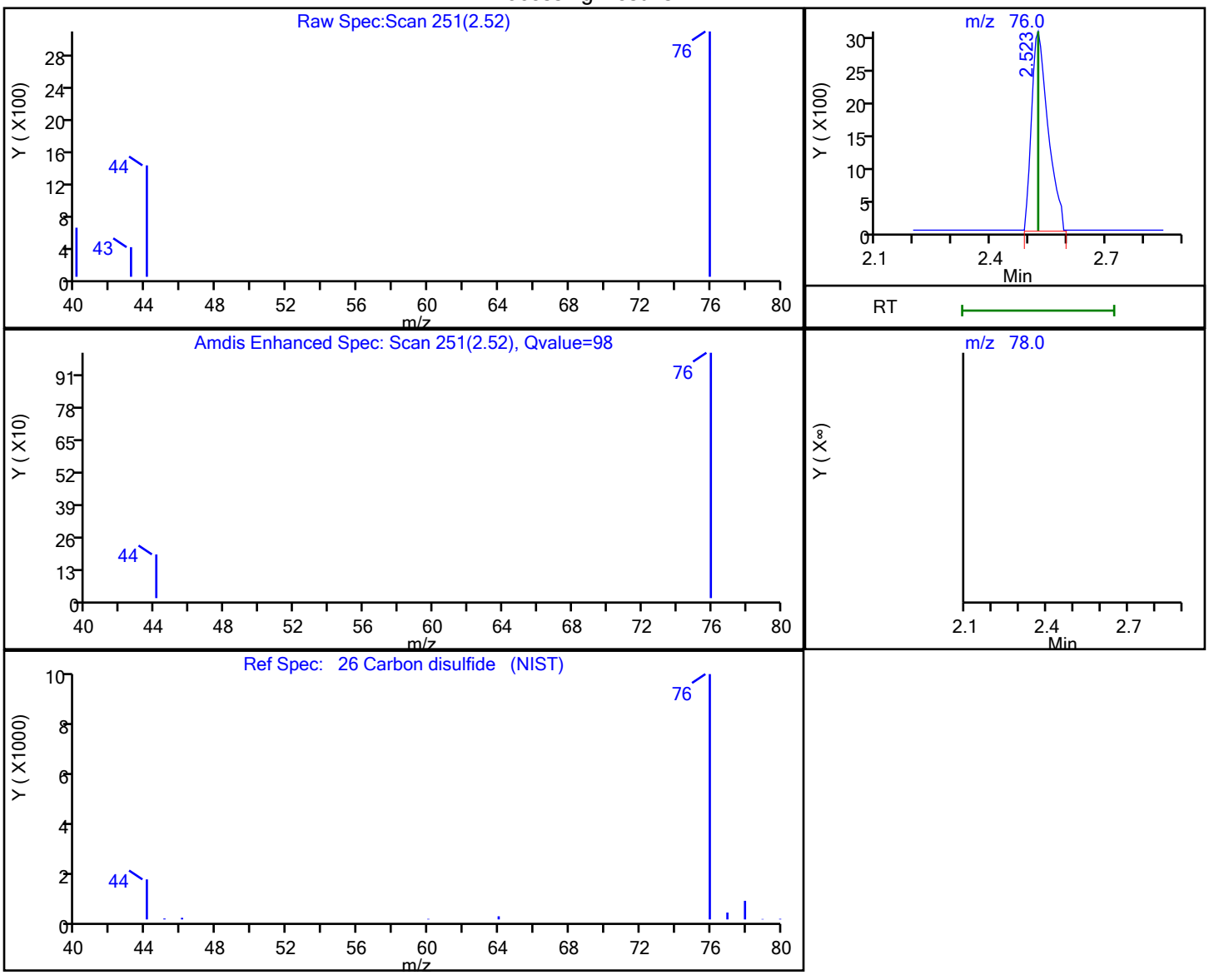
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8377.d				
Injection Date:	29-Oct-2024 02:41:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-24	Lab Sample ID:	480-224872-24		
Client ID:	R-19-102324				
Operator ID:	AK	ALS Bottle#:	42	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	9289	0.630893
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:04:39 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-61-102424 | Lab Sample ID: 480-224872-25

Matrix: Water | Lab File ID: D8378.d

Analysis Method: 8260C | Date Collected: 10/24/2024 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 03:03

Soil Aliquot Vol: | Dilution Factor: 20

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	8.2	U	20	8.2
75-15-0	Carbon disulfide	450		20	3.8
56-23-5	*Carbon tetrachloride*	*4200*	*E*	*20*	*5.4*
108-90-7	Chlorobenzene	24		20	15
67-66-3	*Chloroform*	*2600*	*E*	*20*	*6.8*
75-09-2	Methylene Chloride	170		20	8.8
127-18-4	Tetrachloroethene	61		20	7.2
108-88-3	Toluene	10	U	20	10
79-01-6	Trichloroethene	59		20	9.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Report Date: 29-Oct-2024 14:05:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d
Lims ID: 480-224872-A-25
Client ID: LR-61-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 03:03:30 ALS Bottle#: 43 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-224872-A-25
Misc. Info.: 480-0120866-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:05:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	98510	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	211245	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	238204	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.001	92	179156	28.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	97737	27.2	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	510114	25.0	
26 Carbon disulfide	76	2.529	2.523	0.006	100	329662	22.3	
30 Methylene Chloride	84	2.816	2.810	0.006	96	44804	8.36	
50 Chloroform	83	4.127	4.126	0.001	95	1244549	132.1	E
55 Carbon tetrachloride	117	4.340	4.340	0.000	97	1432532	209.9	E
57 Benzene	78		4.517				ND	
62 Trichloroethene	95	5.017	5.016	0.001	97	14932	2.97	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.413	0.000	96	17136	3.05	
87 Chlorobenzene	112	7.114	7.114	0.000	97	16572	1.21	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

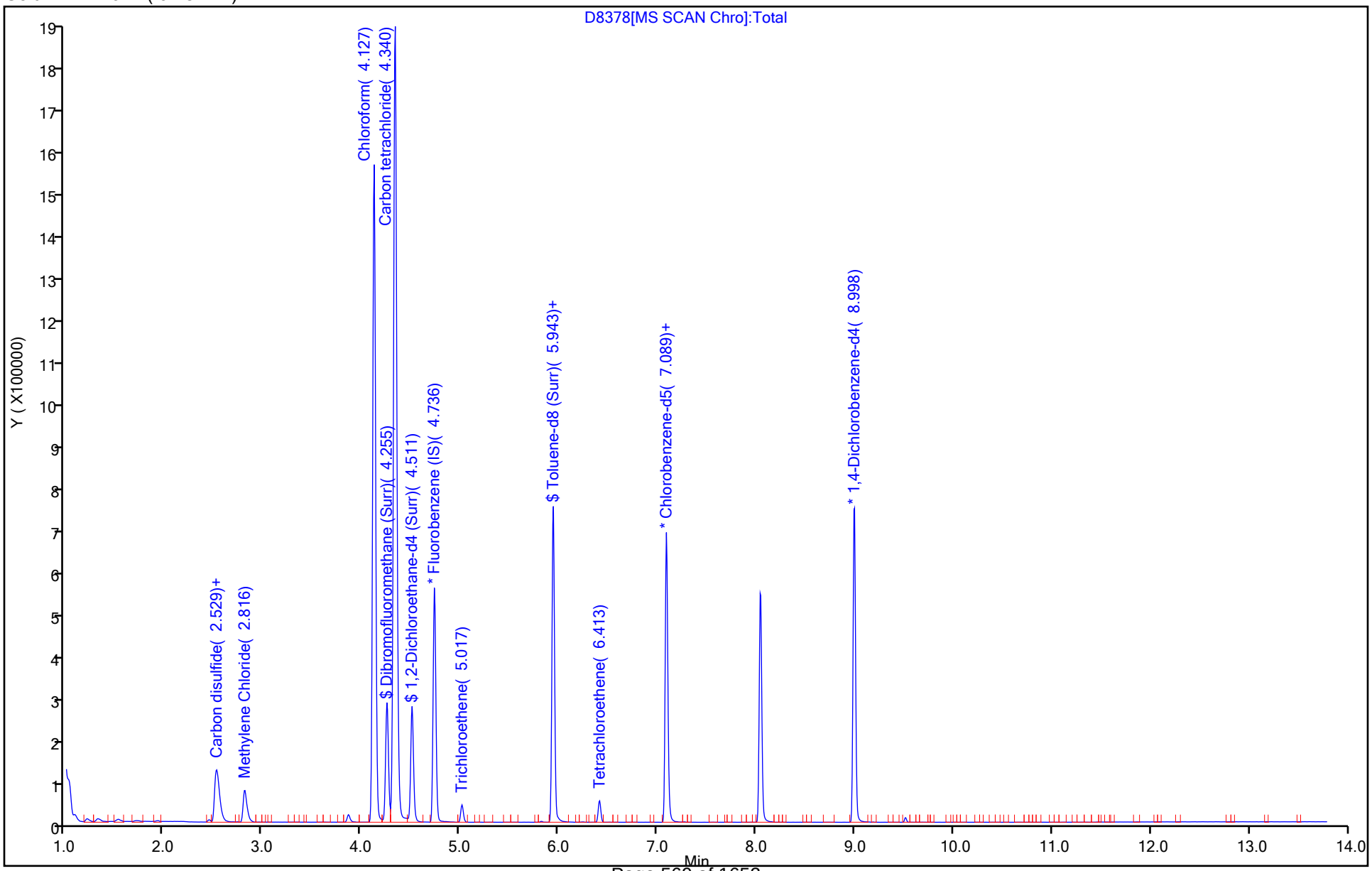
Report Date: 29-Oct-2024 14:05:18 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25	Worklist Smp#:	10
Client ID:	LR-61-102424				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	43
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d
Lims ID: 480-224872-A-25
Client ID: LR-61-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 03:03:30 ALS Bottle#: 43 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-224872-A-25
Misc. Info.: 480-0120866-010
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:05:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.3	113.15
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.2	108.84
$ 5 Toluene-d8 (Surr)	25.0	25.0	100.09

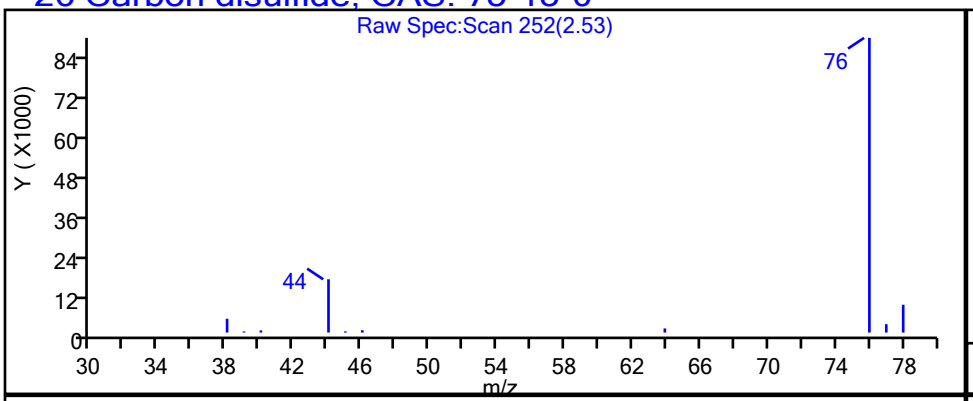
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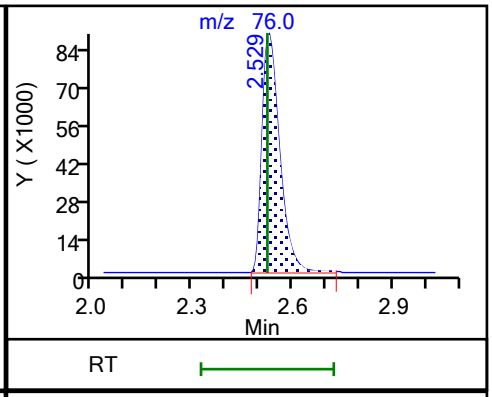
Eurofins Buffalo

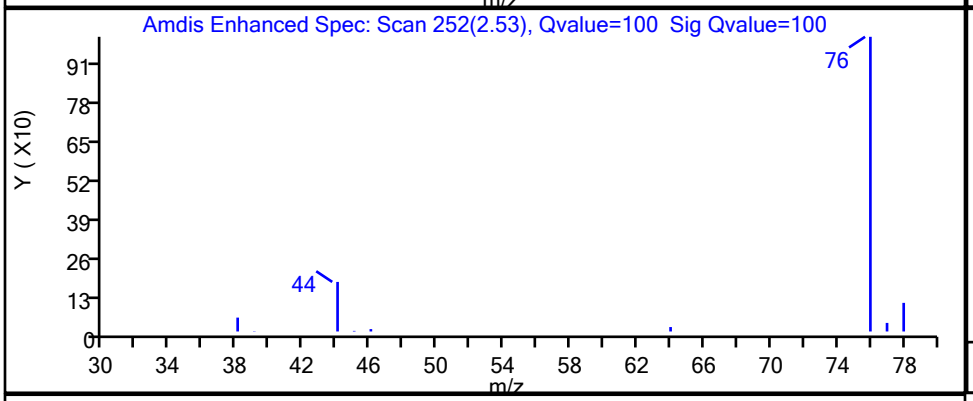
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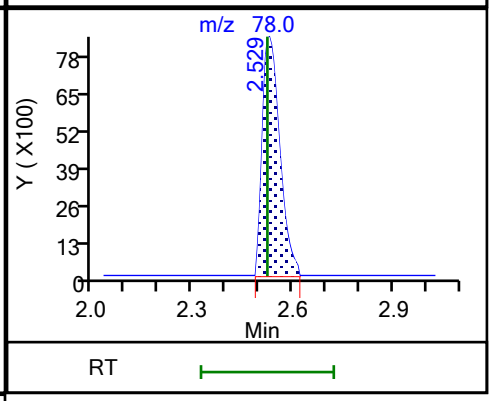
Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

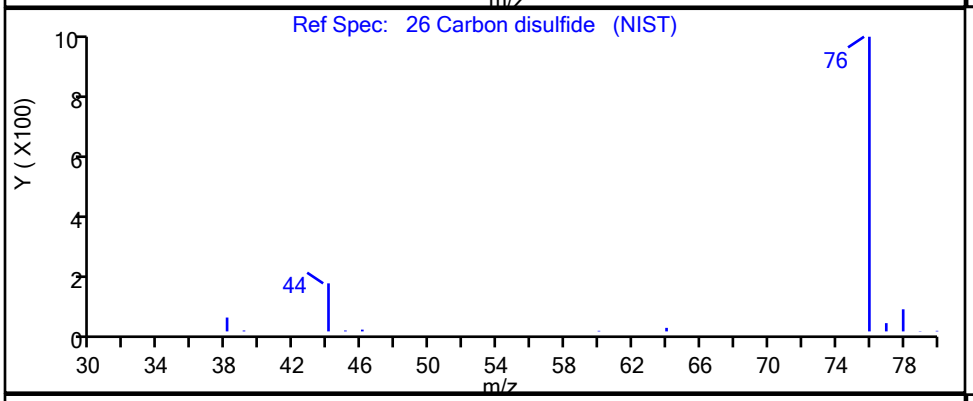
26 Carbon disulfide, CAS: 75-15-0

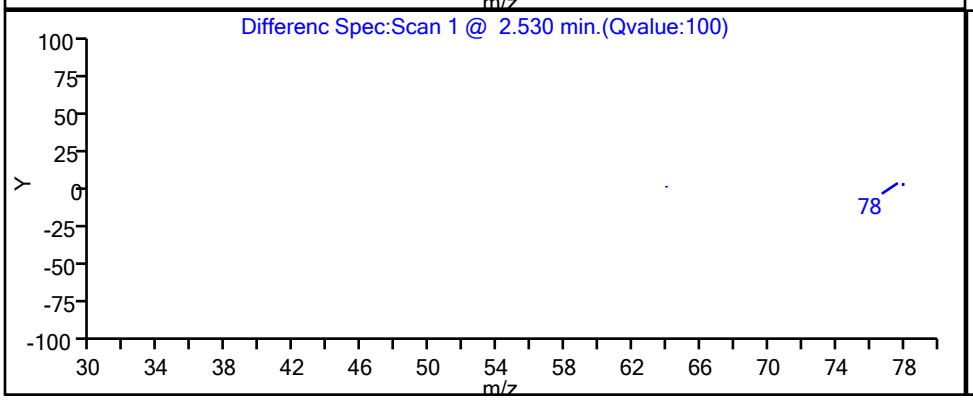


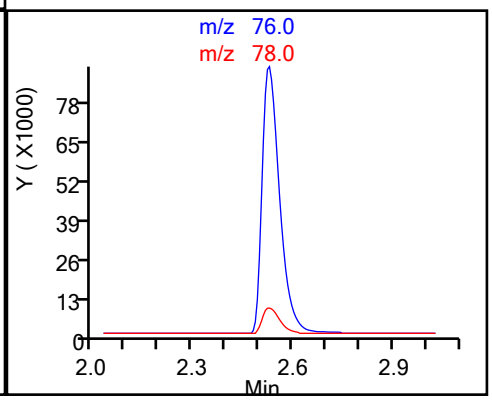












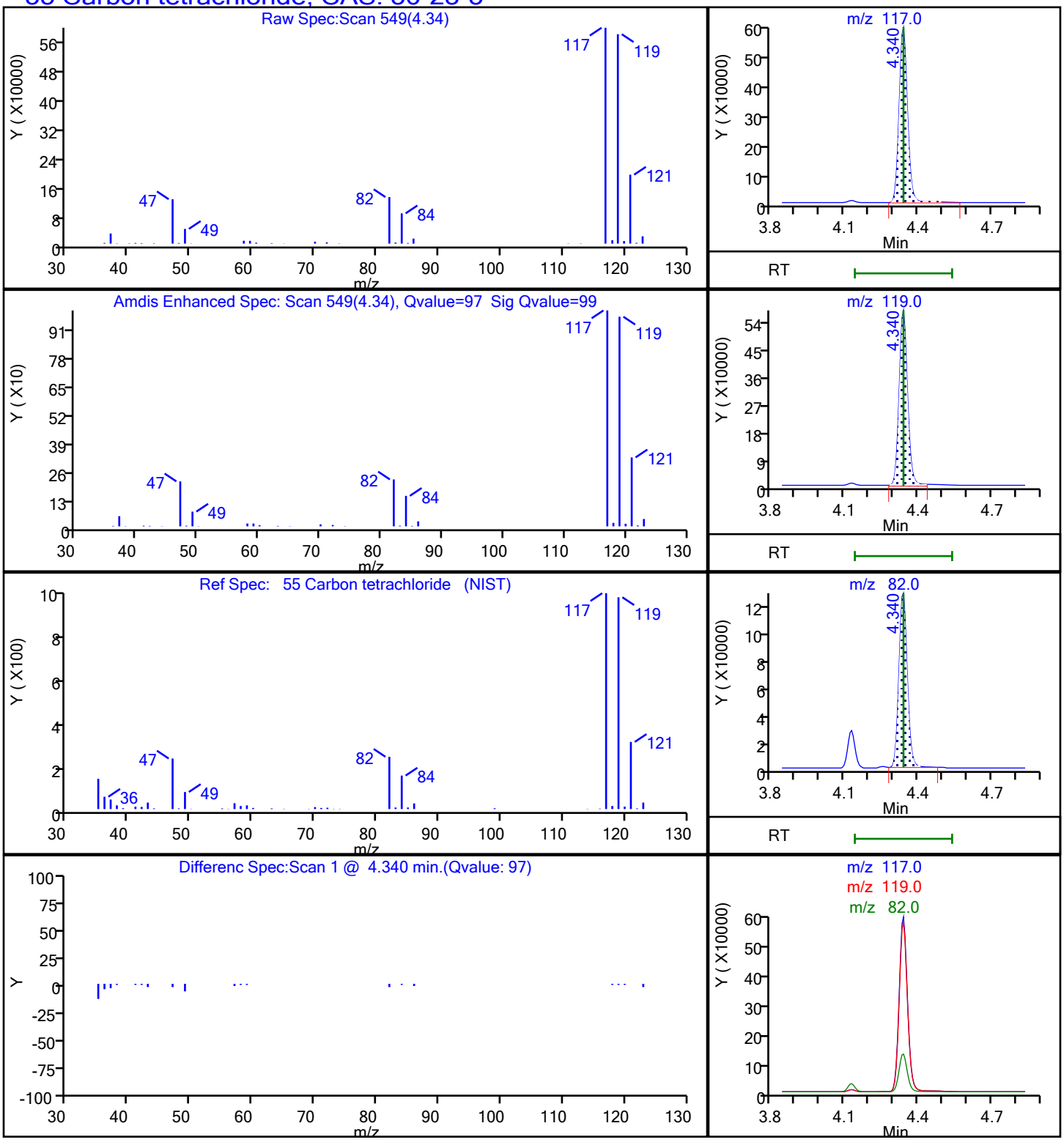
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



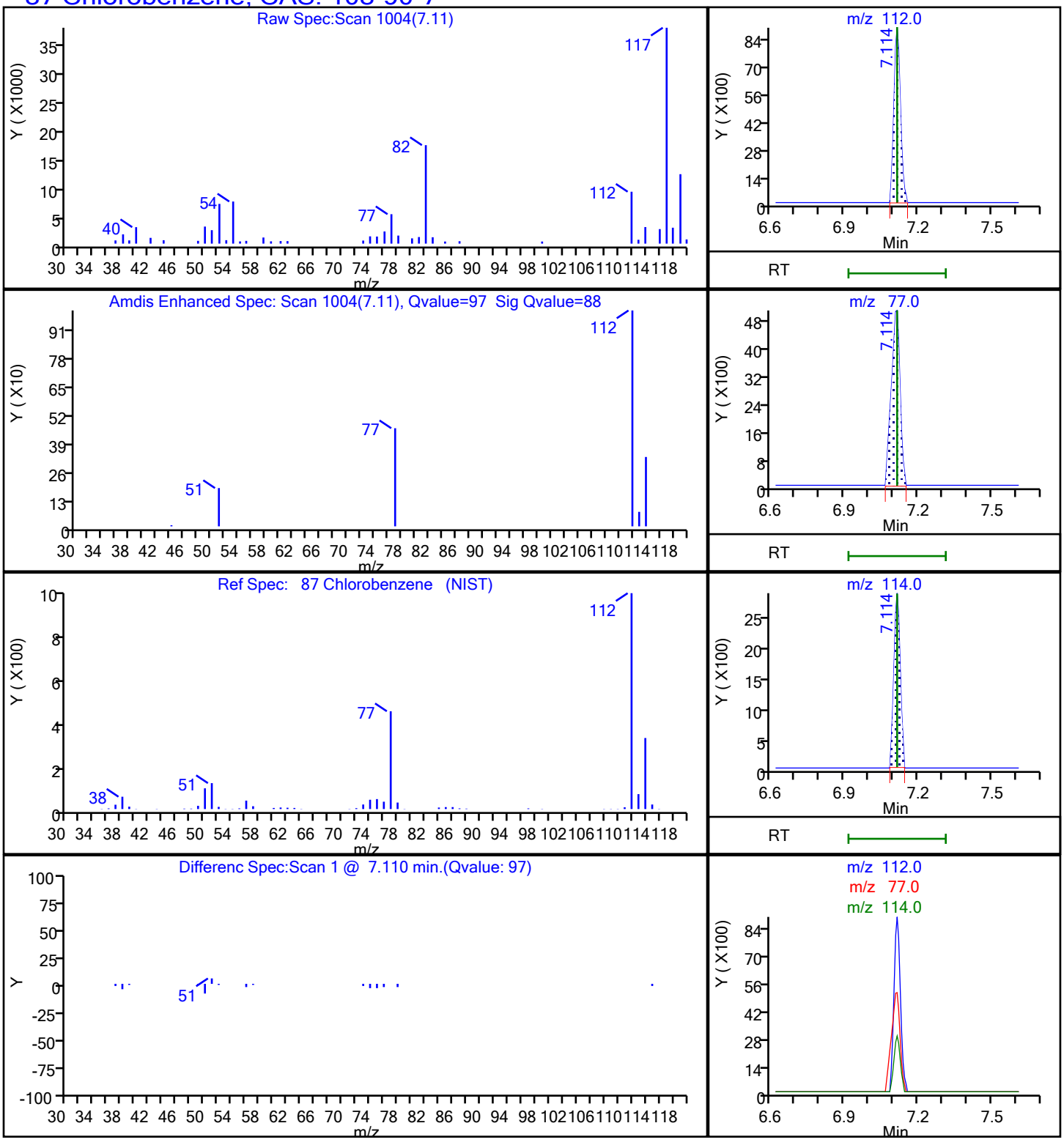
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



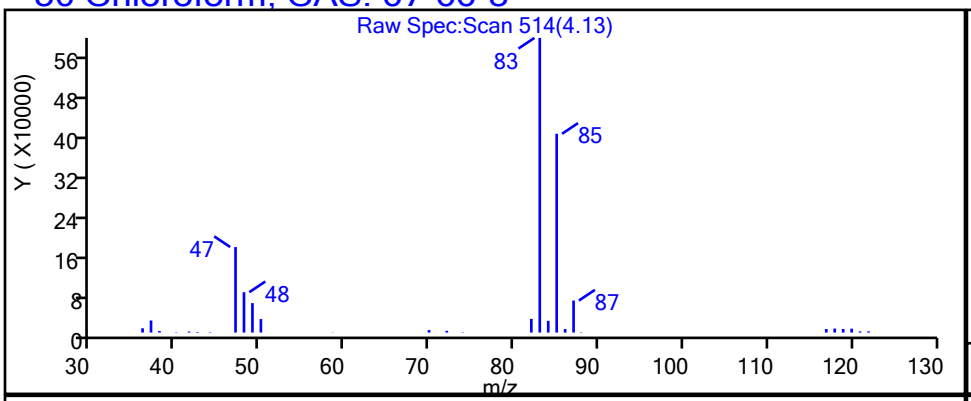
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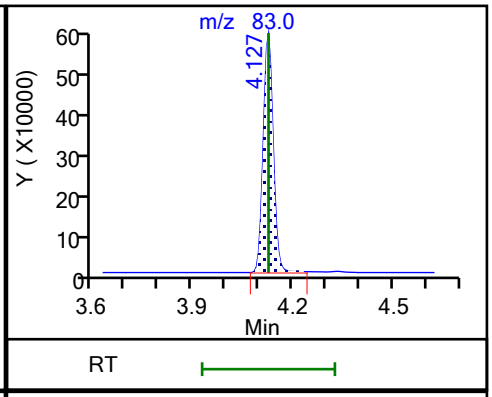
Eurofins Buffalo

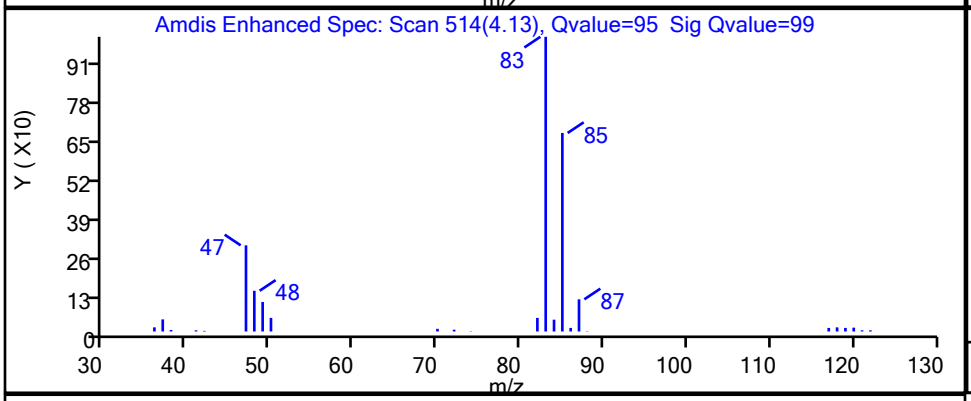
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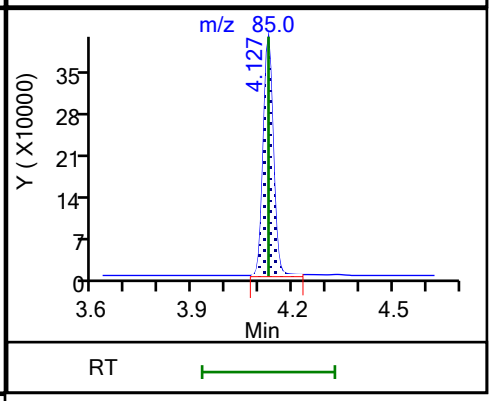
Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

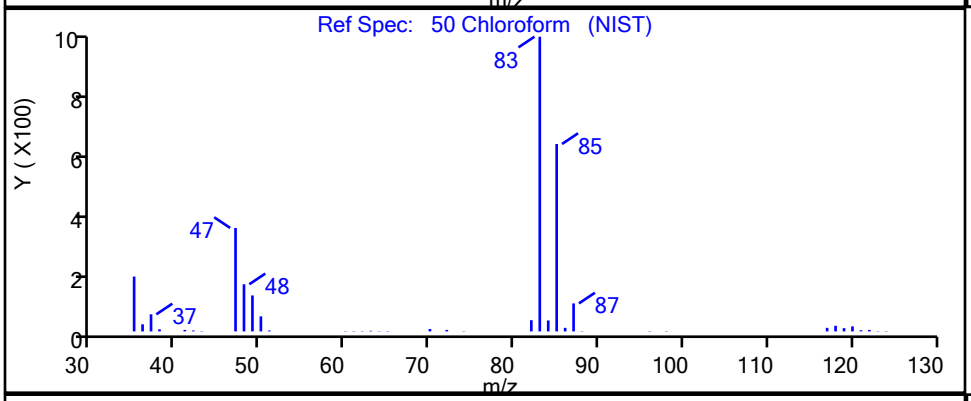
50 Chloroform, CAS: 67-66-3

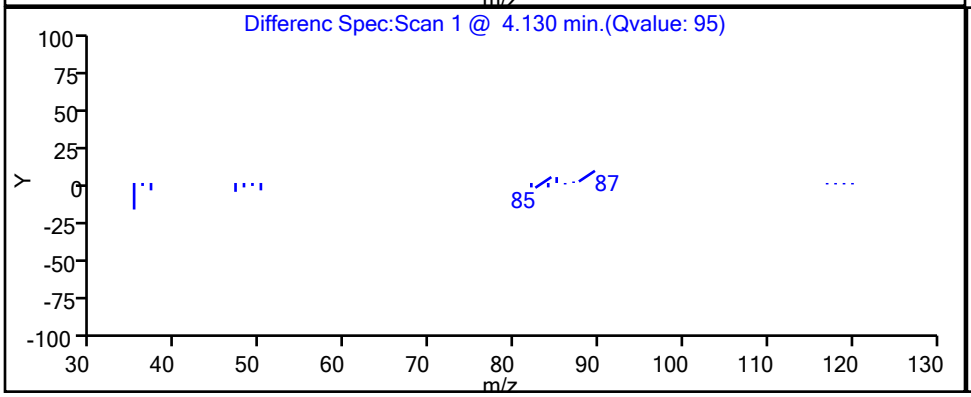


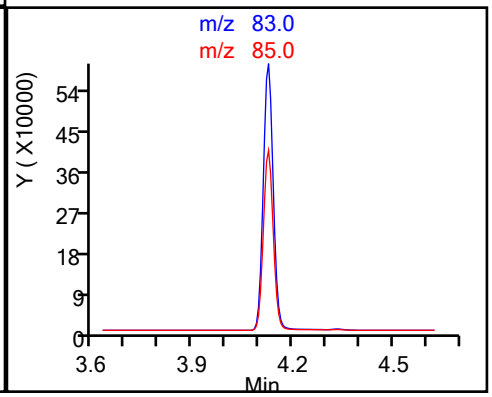












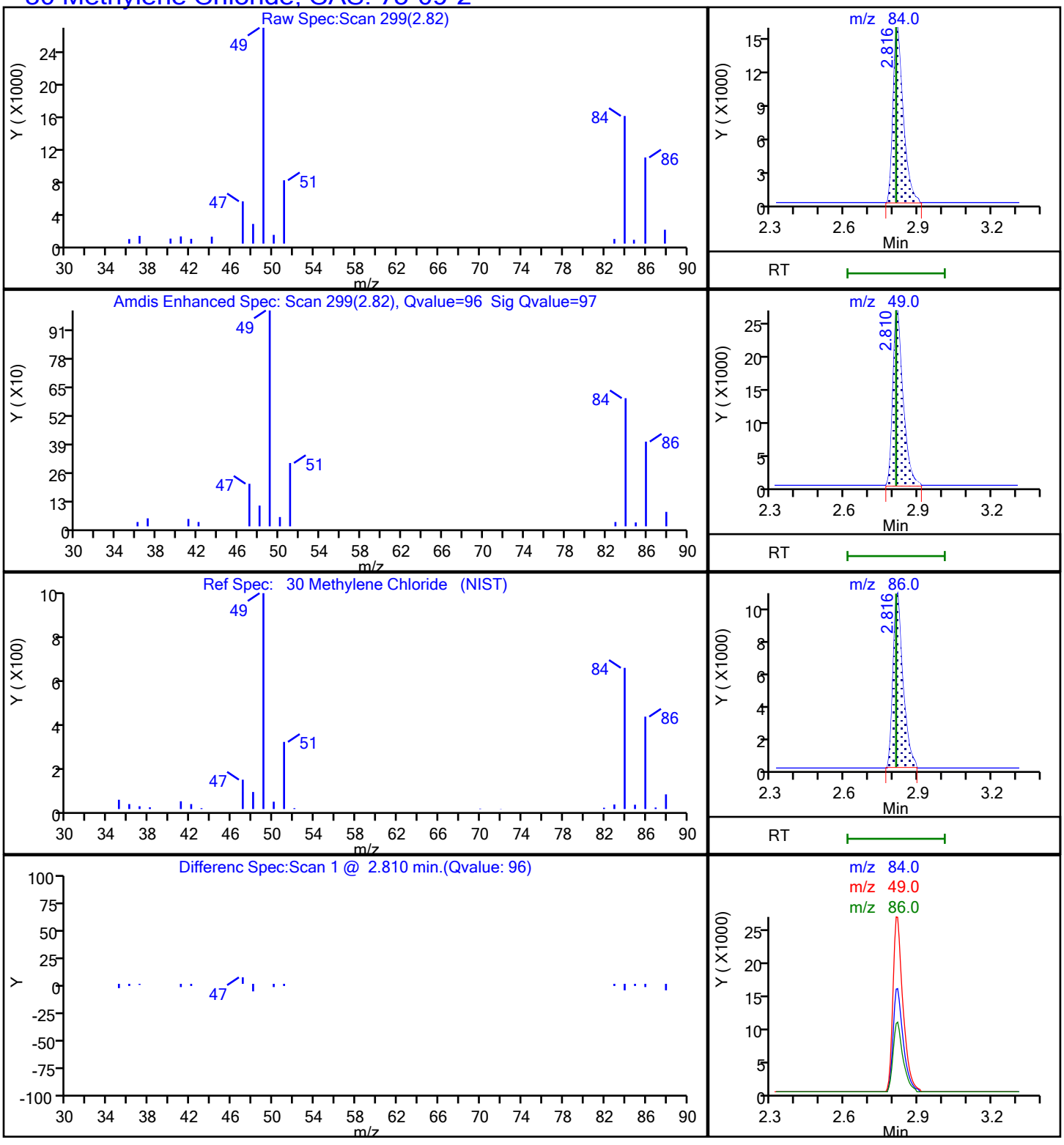
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



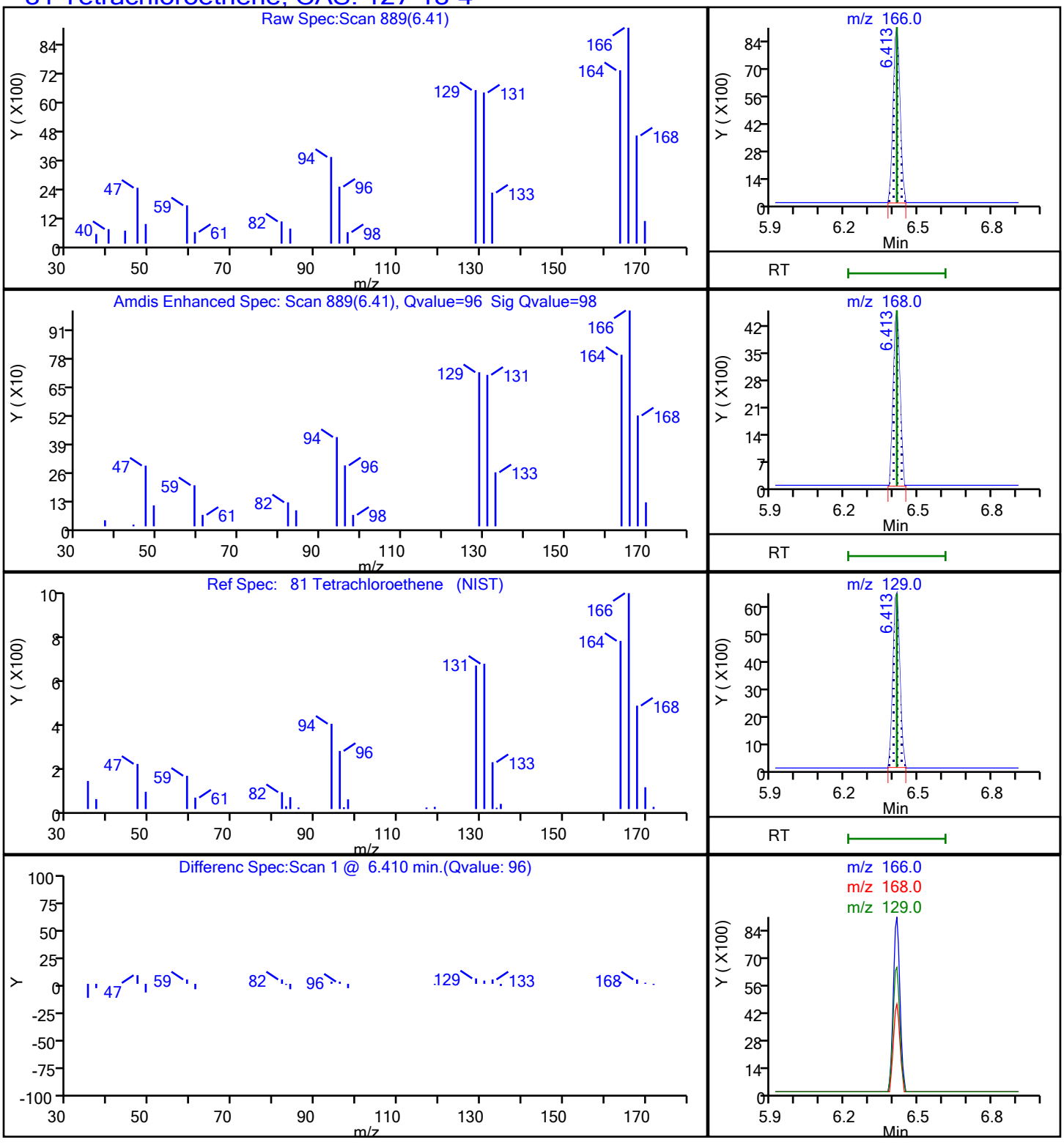
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	43	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



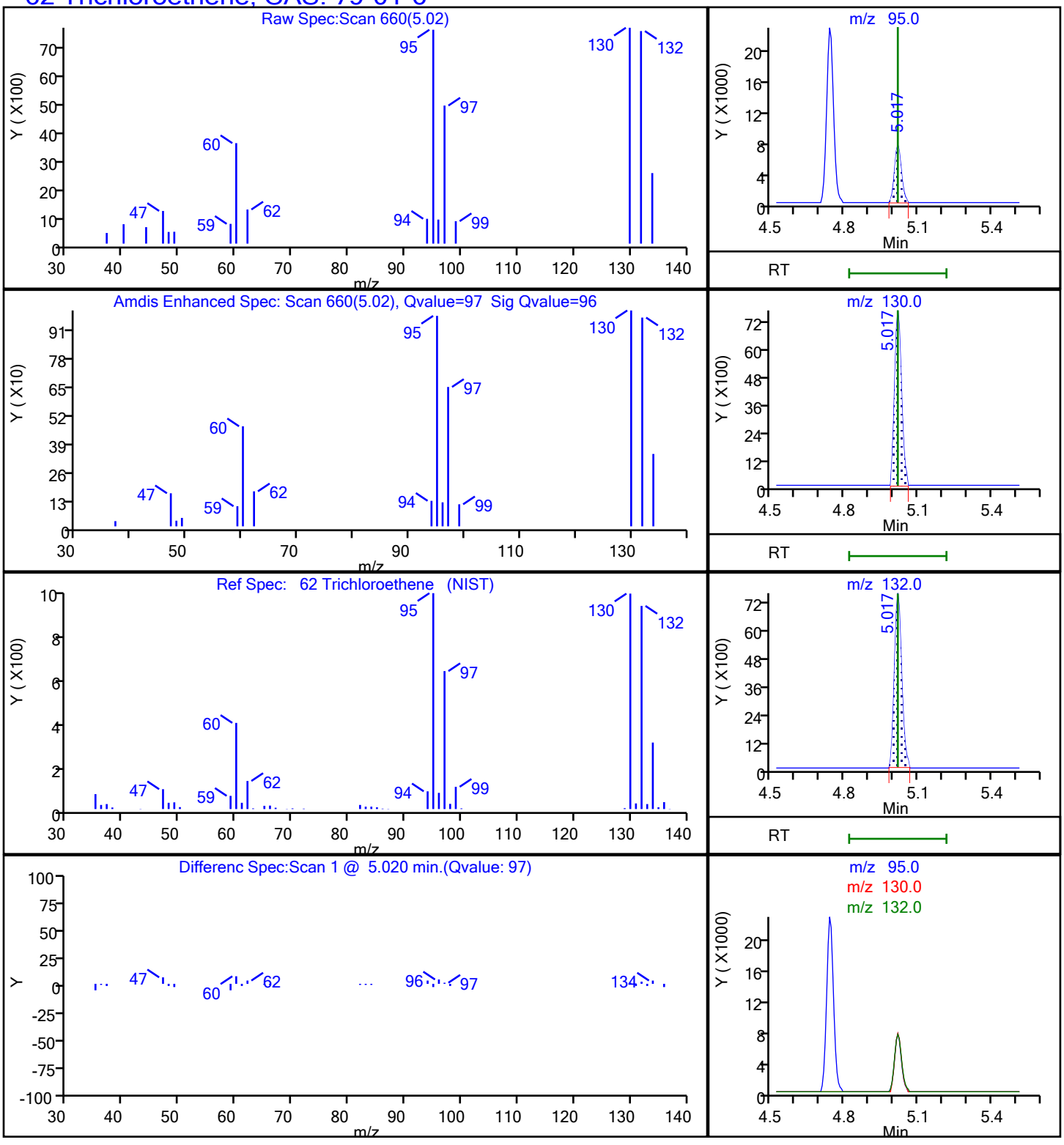
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8378.d

Injection Date:	29-Oct-2024 03:03:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-25	Lab Sample ID:	480-224872-25
Client ID:	LR-61-102424		
Operator ID:	AK	ALS Bottle#:	43 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	20.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-61-102424 DL | Lab Sample ID: 480-224872-25 DL

Matrix: Water | Lab File ID: D8423.d

Analysis Method: 8260C | Date Collected: 10/24/2024 08:54

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 20:05

Soil Aliquot Vol: | Dilution Factor: 80

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	*Benzene*	*33*	*U*	*80*	*33*
75-15-0	*Carbon disulfide*	*430*	*D*	*80*	*15*
56-23-5	Carbon tetrachloride	4000	D	80	22
108-90-7	*Chlorobenzene*	*60*	*U*	*80*	*60*
67-66-3	Chloroform	2500	D	80	27
75-09-2	*Methylene Chloride*	*120*	*D*	*80*	*35*
127-18-4	*Tetrachloroethene*	*52*	*J D*	*80*	*29*
108-88-3	*Toluene*	*41*	*U*	*80*	*41*
79-01-6	*Trichloroethene*	*54*	*J D*	*80*	*37*

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111	D	77-120
1868-53-7	Dibromofluoromethane (Surr)	113	D	75-123
2037-26-5	Toluene-d8 (Surr)	101	D	80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d
Lims ID: 480-224872-B-25
Client ID: LR-61-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:05:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 480-224872-B-25
Misc. Info.: 480-0120894-021
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:21:38 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:23:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	96654	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	195590	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	234573	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.260	-0.001	92	175457	28.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	-0.001	98	97898	27.8	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	476783	25.3	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	78004	5.37	
30 Methylene Chloride	84	2.816	2.822	-0.006	96	11377	1.52	
50 Chloroform	83	4.132	4.133	-0.001	94	291010	31.5	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	335142	50.1	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95	5.023	5.023	-0.001	95	3306	0.6694	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.412	0.006	91	3387	0.6506	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

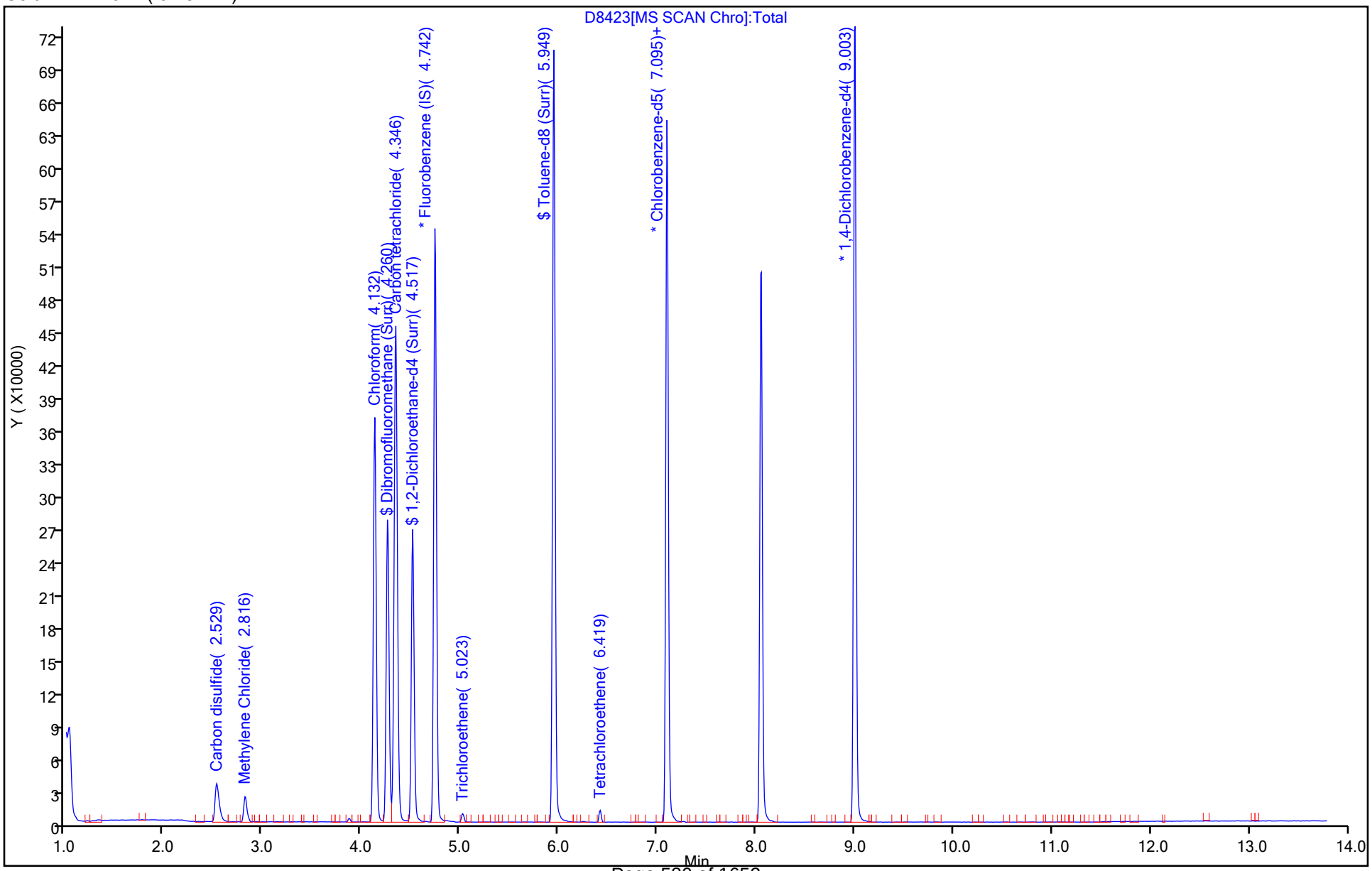
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d

Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25	Worklist Smp#:	21
Client ID:	LR-61-102424				
Purge Vol:	5.000 mL	Dil. Factor:	80.0000	ALS Bottle#:	19
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d
Lims ID: 480-224872-B-25
Client ID: LR-61-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:05:30 ALS Bottle#: 19 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 80.0000
Sample Info: 480-224872-B-25
Misc. Info.: 480-0120894-021
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 18:21:38 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 20:23:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.2	112.94
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.11
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.04

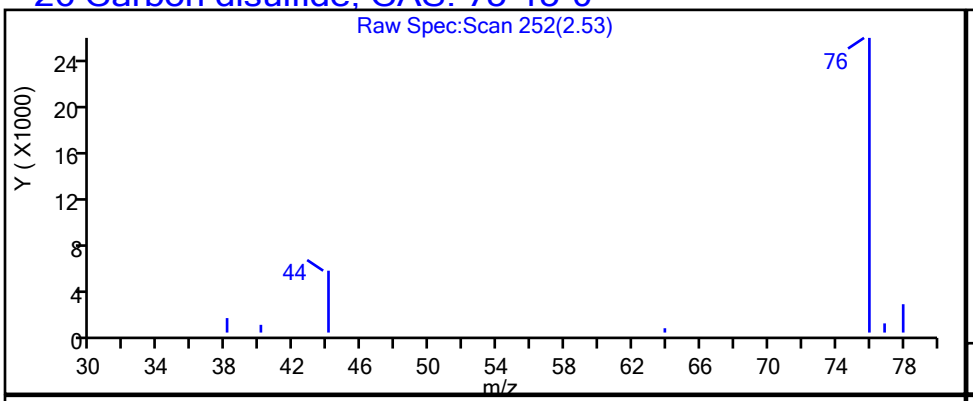
Report Date: 29-Oct-2024 20:23:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

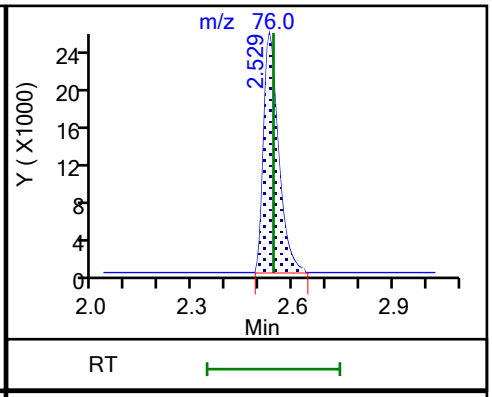
Eurofins Buffalo

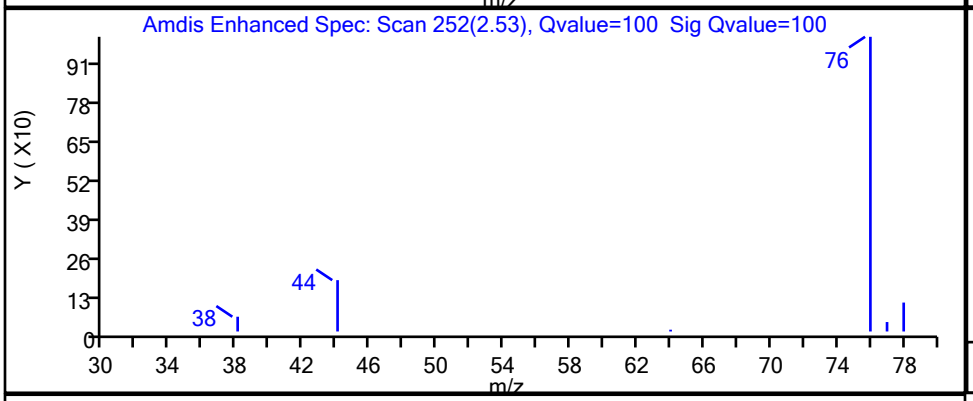
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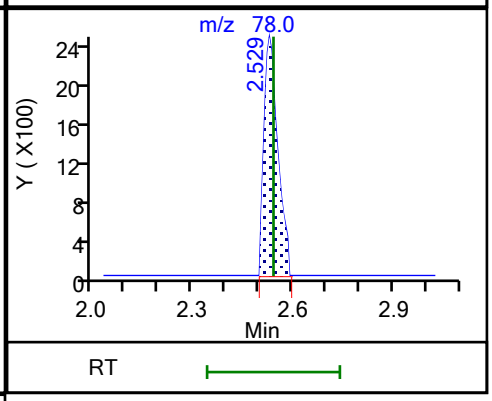
Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

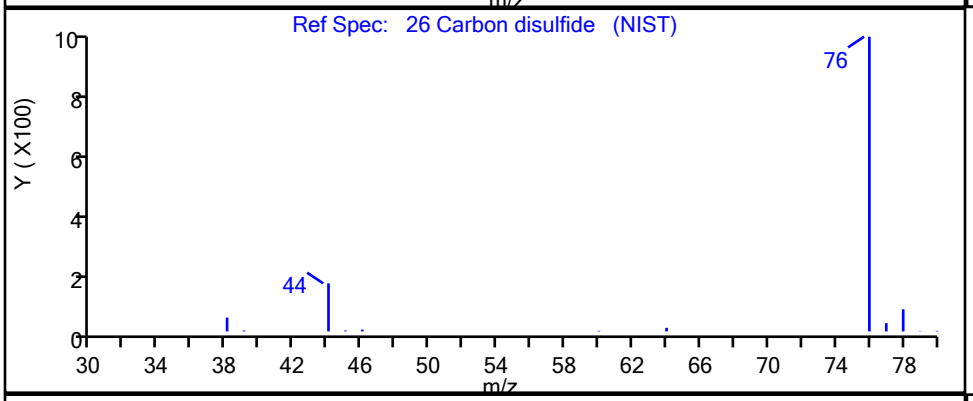
26 Carbon disulfide, CAS: 75-15-0

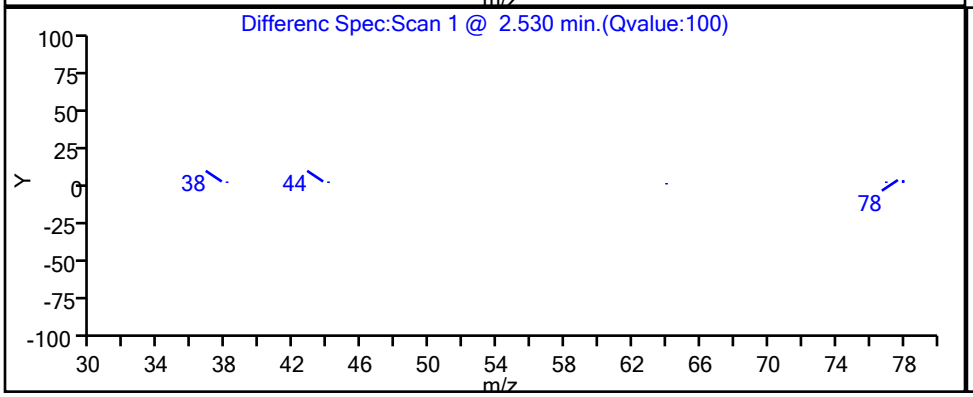


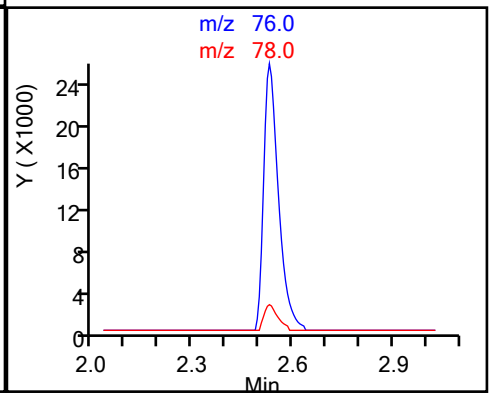












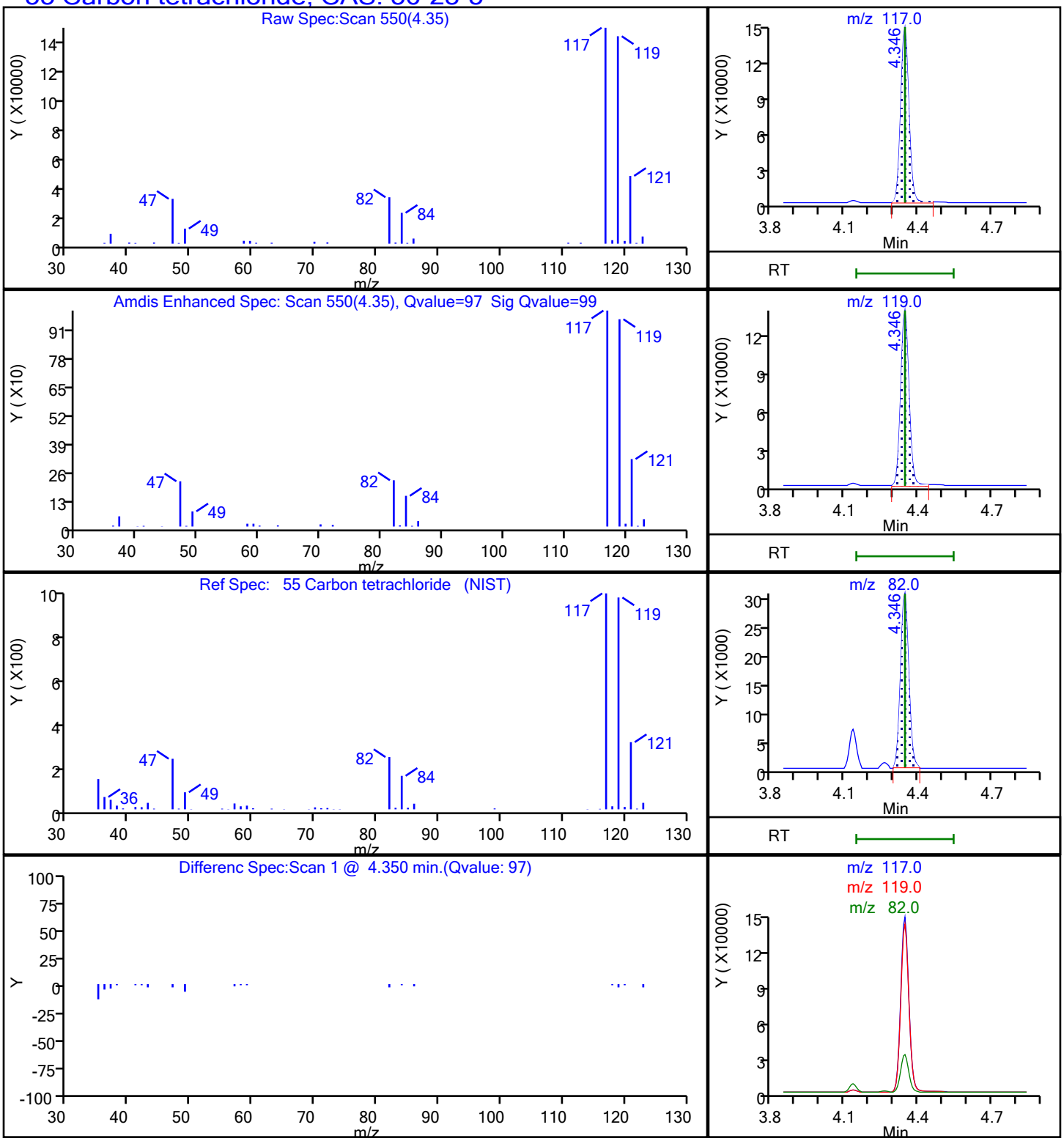
Report Date: 29-Oct-2024 20:23:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d

Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



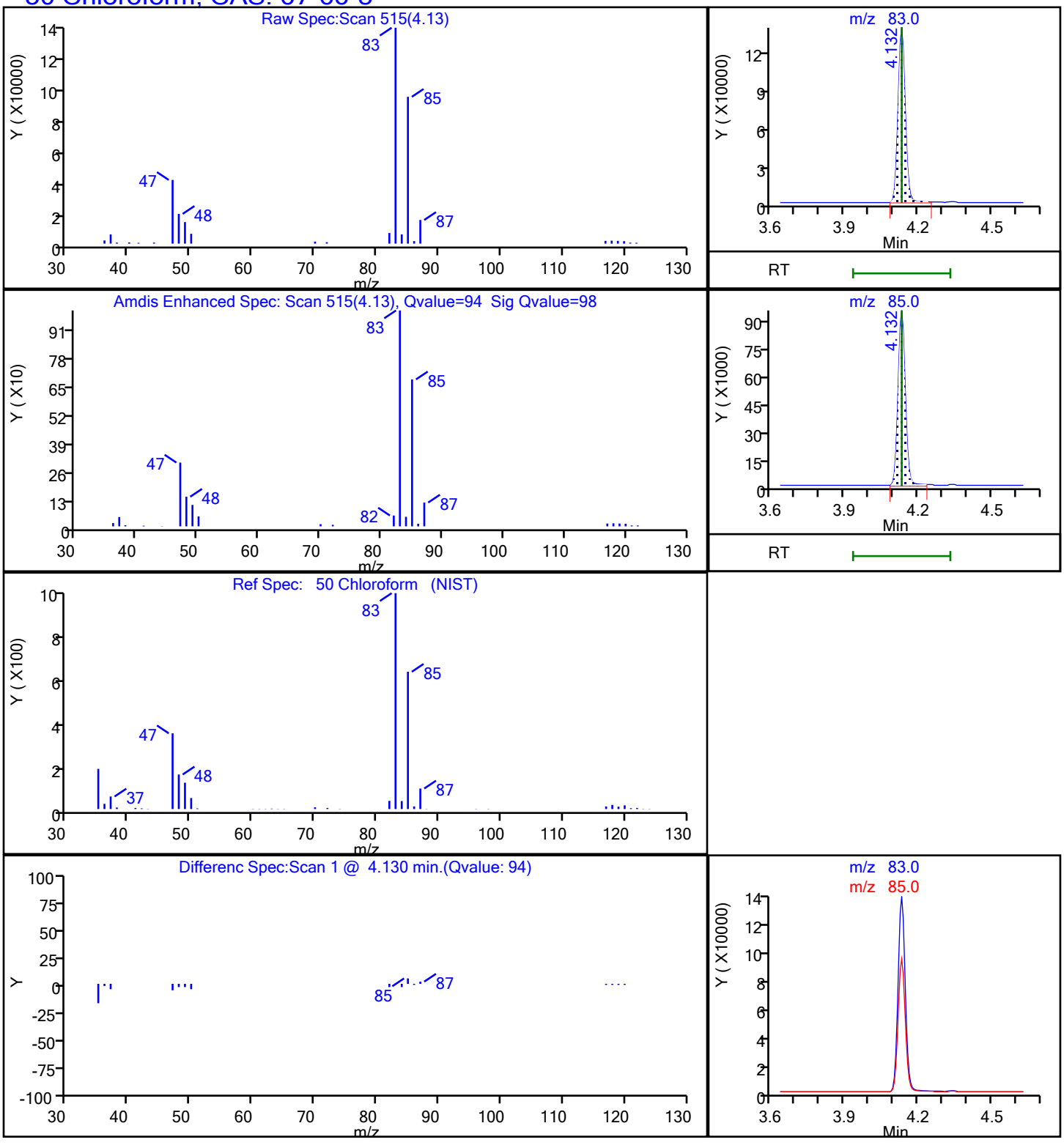
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Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
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Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



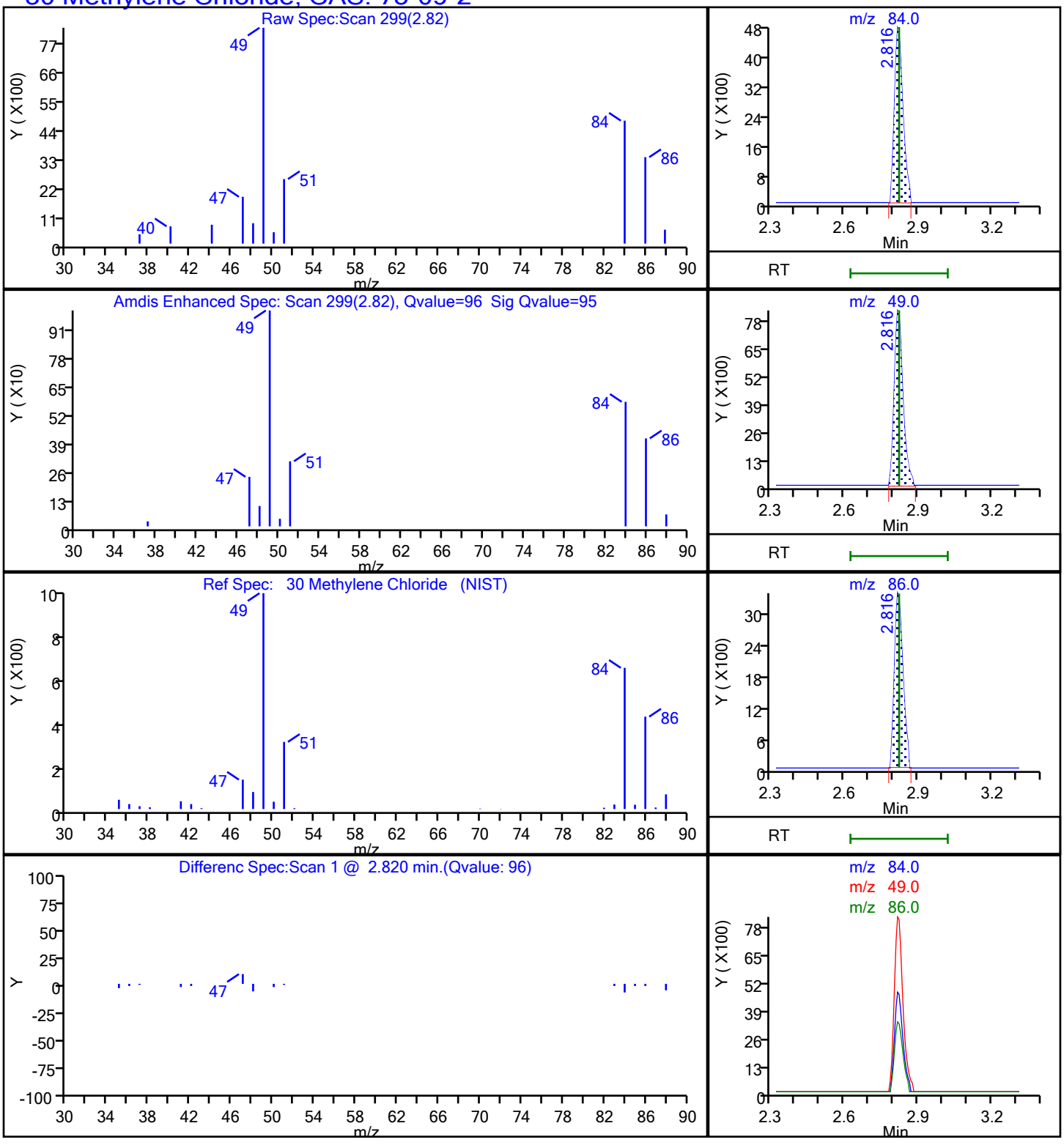
Report Date: 29-Oct-2024 20:23:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d

Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



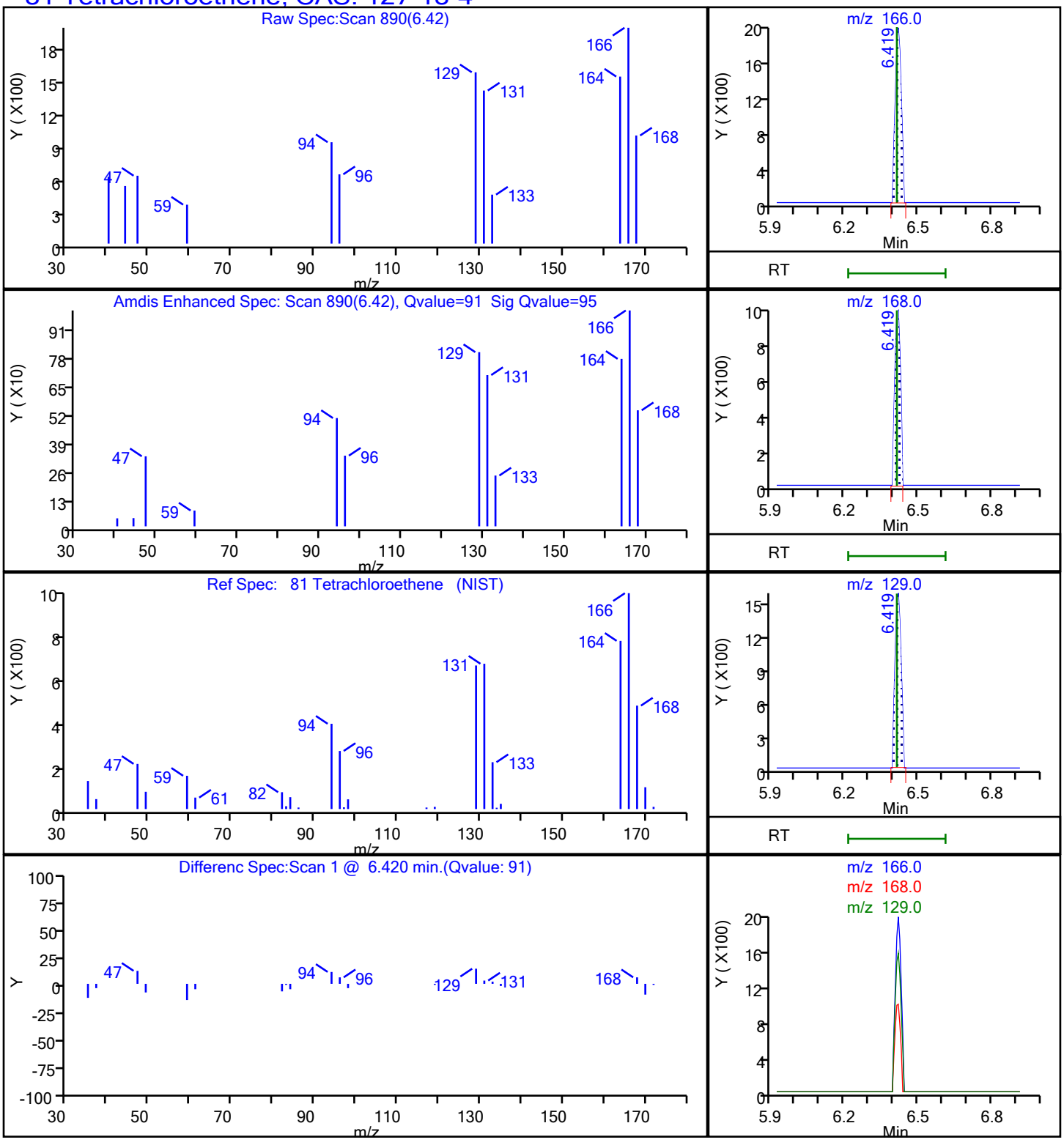
Report Date: 29-Oct-2024 20:23:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d

Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



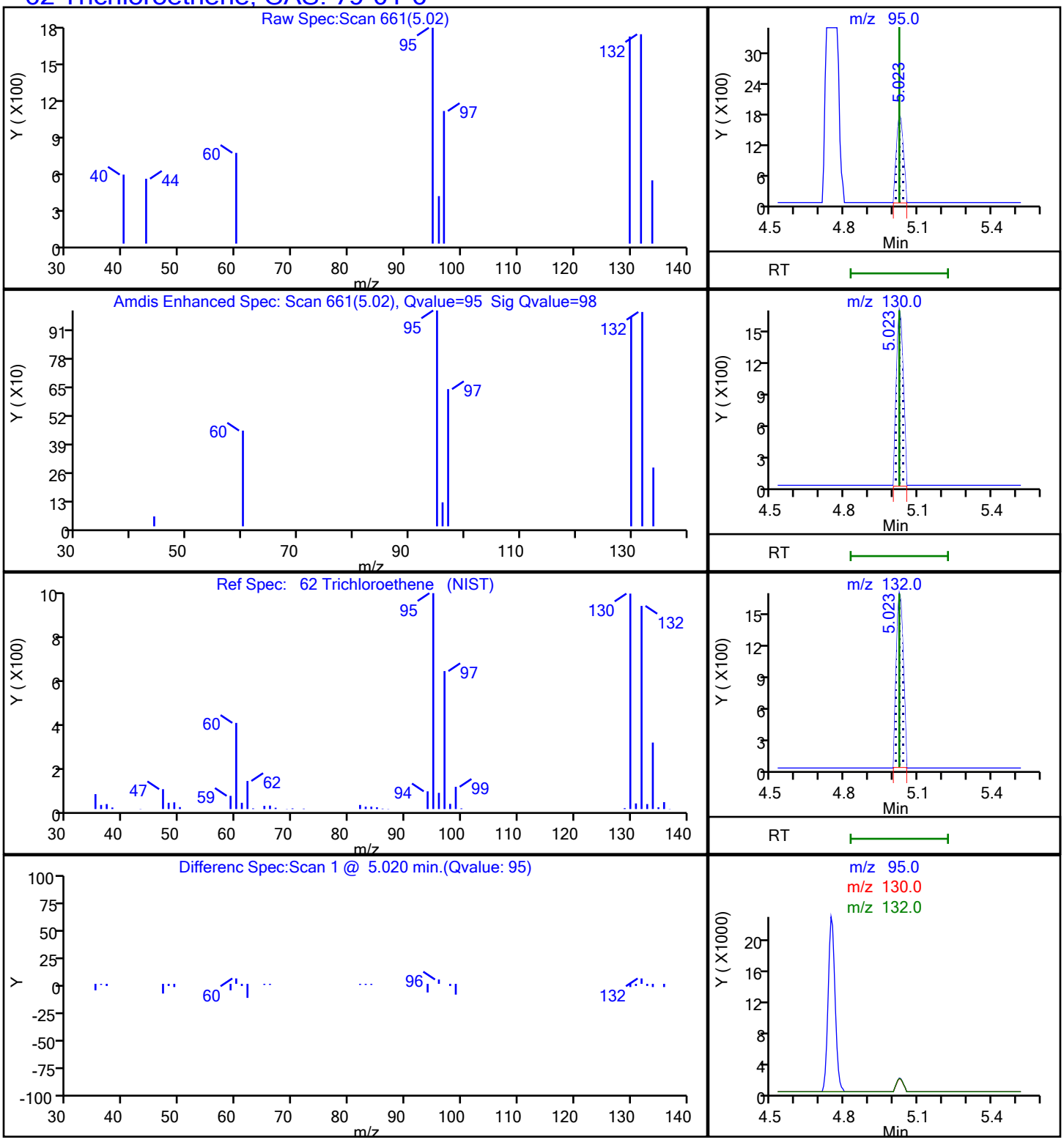
Report Date: 29-Oct-2024 20:23:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8423.d

Injection Date:	29-Oct-2024 20:05:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-25	Lab Sample ID:	480-224872-25		
Client ID:	LR-61-102424				
Operator ID:	AK	ALS Bottle#:	19	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	80.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-51-102424 | Lab Sample ID: 480-224872-26

Matrix: Water | Lab File ID: D8379.d

Analysis Method: 8260C | Date Collected: 10/24/2024 09:26

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 03:25

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	1.7		1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8379.d
Lims ID: 480-224872-A-26
Client ID: LR-51-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 03:25:30 ALS Bottle#: 44 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-26
Misc. Info.: 480-0120866-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:05:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	97431	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	86	207346	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	238774	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	93	177889	28.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	100374	28.3	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	500642	25.0	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.126	4.126	0.000	88	2939	0.3153	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112	7.114	7.114	0.000	95	22294	1.66	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

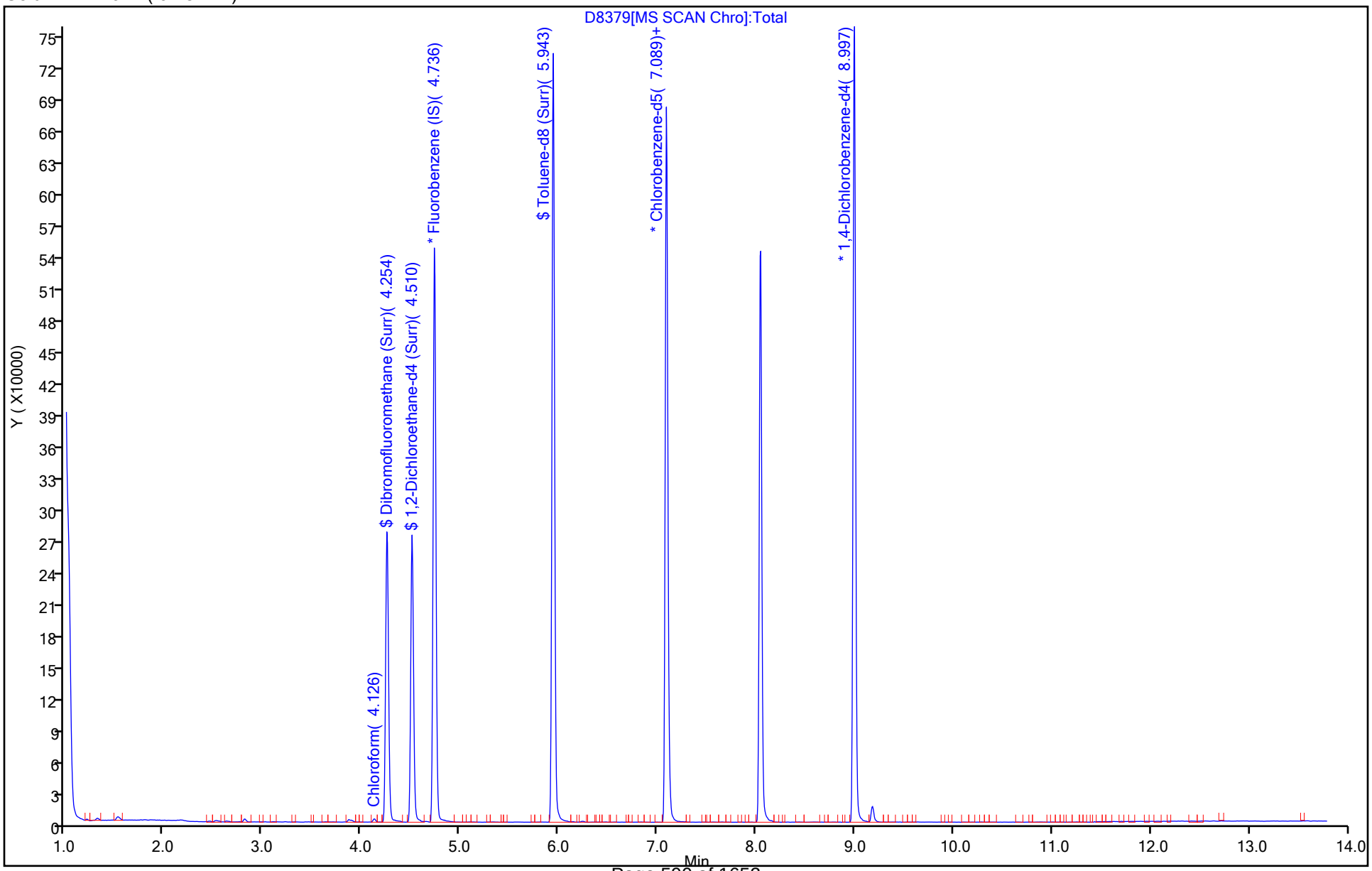
Report Date: 29-Oct-2024 14:05:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8379.d

Injection Date:	29-Oct-2024 03:25:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-26	Lab Sample ID:	480-224872-26	Worklist Smp#:	11
Client ID:	LR-51-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8379.d
Lims ID: 480-224872-A-26
Client ID: LR-51-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 03:25:30 ALS Bottle#: 44 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-26
Misc. Info.: 480-0120866-011
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:05:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.4	113.59
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.02
$ 5 Toluene-d8 (Surr)	25.0	25.0	100.08

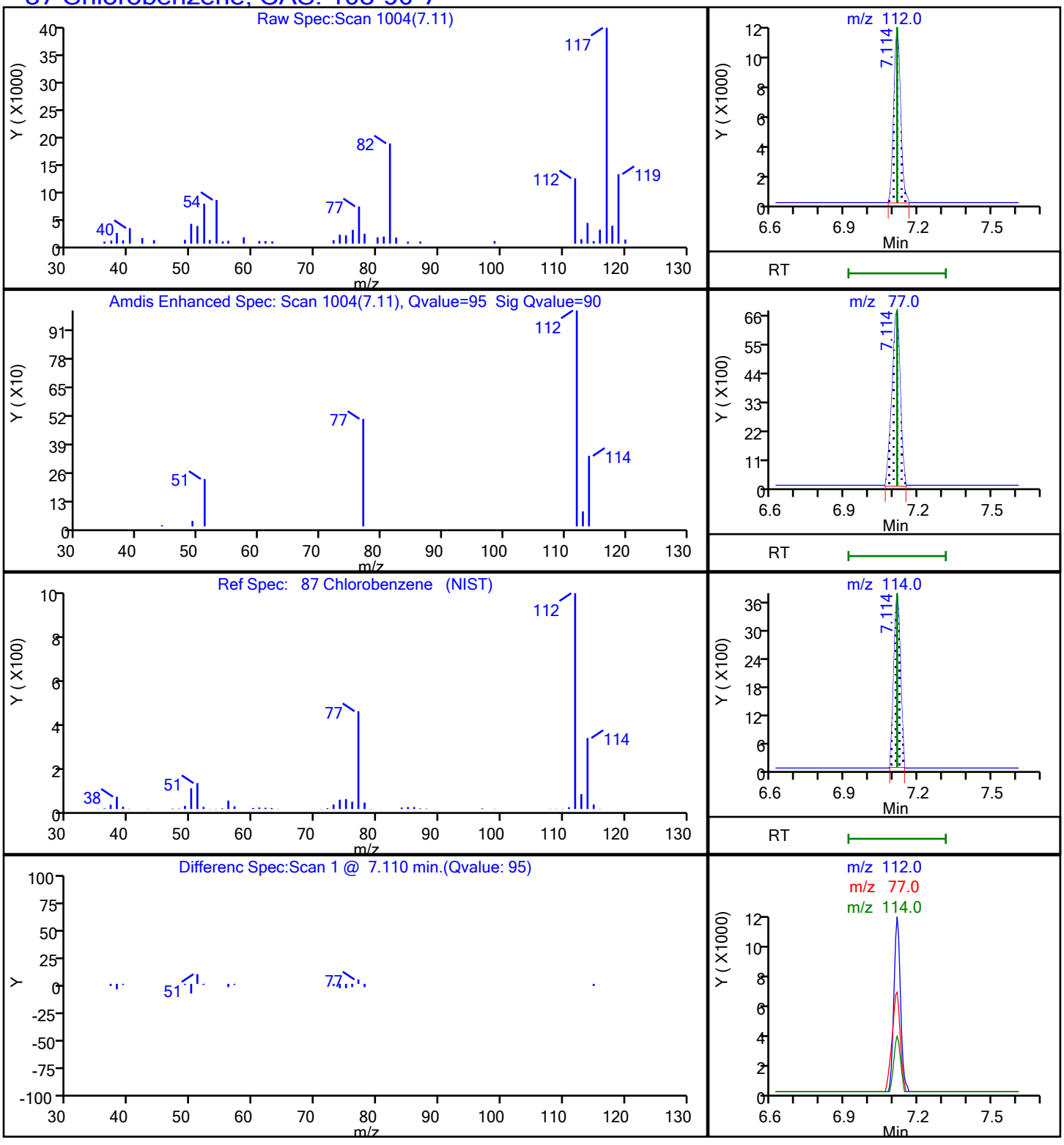
Report Date: 29-Oct-2024 14:05:33 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8379.d

Injection Date:	29-Oct-2024 03:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-26	Lab Sample ID:	480-224872-26		
Client ID:	LR-51-102424				
Operator ID:	AK	ALS Bottle#:	44	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



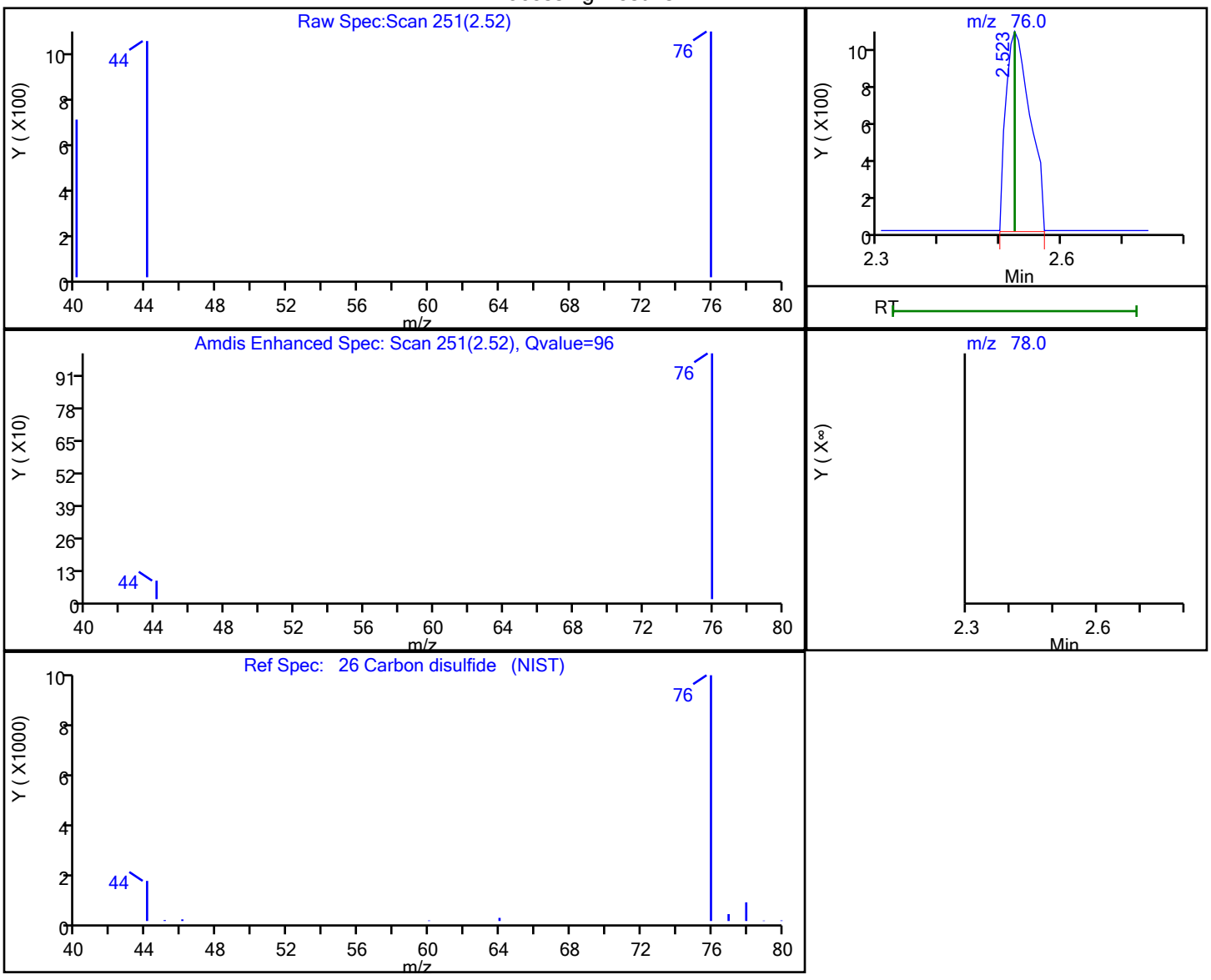
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8379.d				
Injection Date:	29-Oct-2024 03:25:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-26	Lab Sample ID:	480-224872-26		
Client ID:	LR-51-102424				
Operator ID:	AK	ALS Bottle#:	44	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	2900	0.198136
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:05:25 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-50-102424 | Lab Sample ID: 480-224872-27

Matrix: Water | Lab File ID: D8424.d

Analysis Method: 8260C | Date Collected: 10/24/2024 09:41

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 20:27

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.89	J	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8424.d
Lims ID: 480-224872-B-27
Client ID: LR-50-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:27:30 ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-27
Misc. Info.: 480-0120894-022
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:41:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	95424	25.0	
* 2 Chlorobenzene-d5	82	7.096	7.095	0.001	87	198010	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	233651	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	93	175968	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	96883	27.8	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	95	475517	24.9	
26 Carbon disulfide	76		2.541				ND	U
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83		4.133				ND	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78	4.523	4.523	0.000	88	3620	0.2126	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112	7.120	7.120	0.000	96	11472	0.8941	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

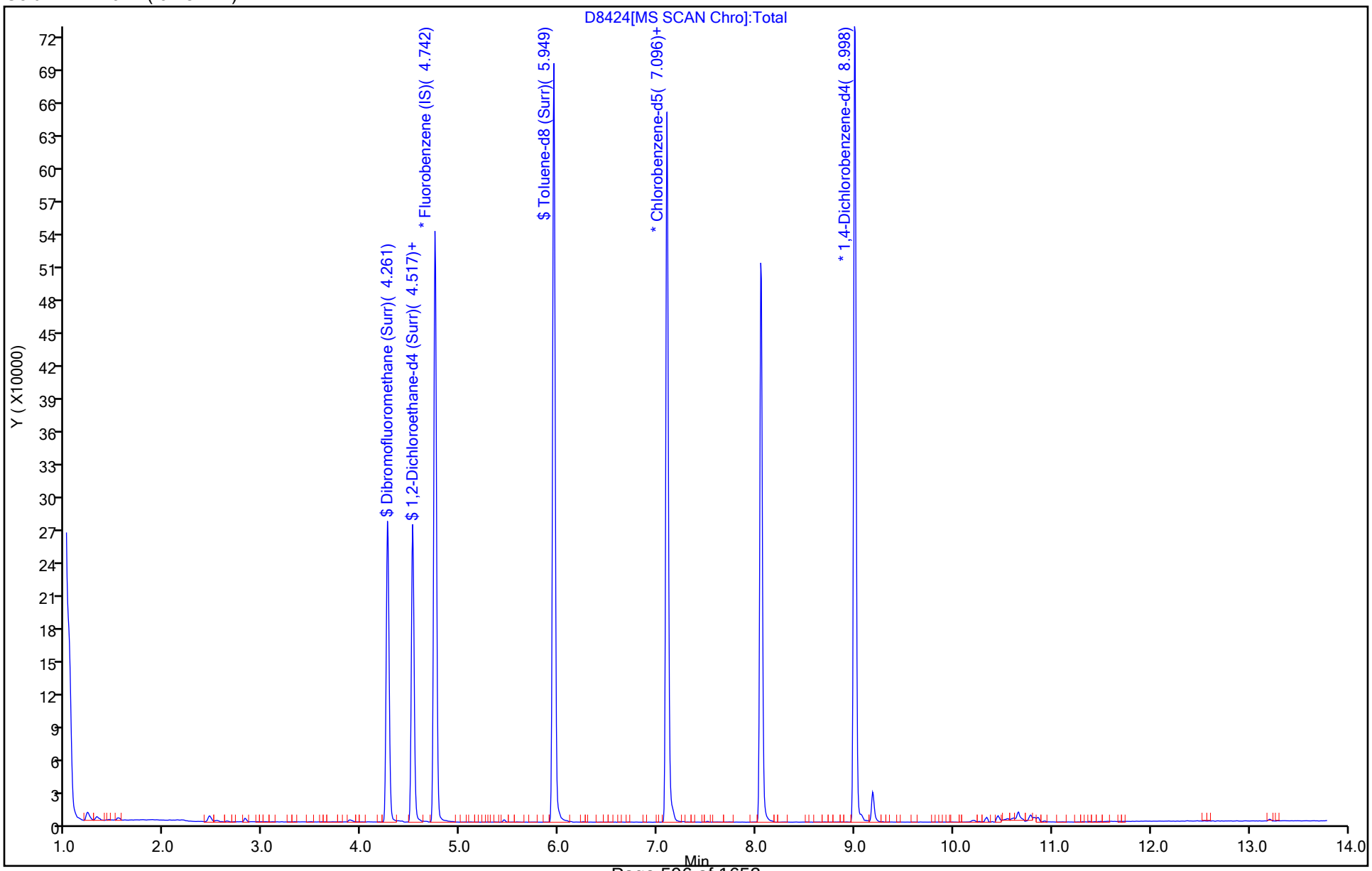
Report Date: 30-Oct-2024 10:41:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8424.d

Injection Date:	29-Oct-2024 20:27:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-27	Lab Sample ID:	480-224872-27	Worklist Smp#:	22
Client ID:	LR-50-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8424.d
Lims ID: 480-224872-B-27
Client ID: LR-50-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:27:30 ALS Bottle#: 20 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-27
Misc. Info.: 480-0120894-022
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:41:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.73
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.38
$ 5 Toluene-d8 (Surr)	25.0	24.9	99.54

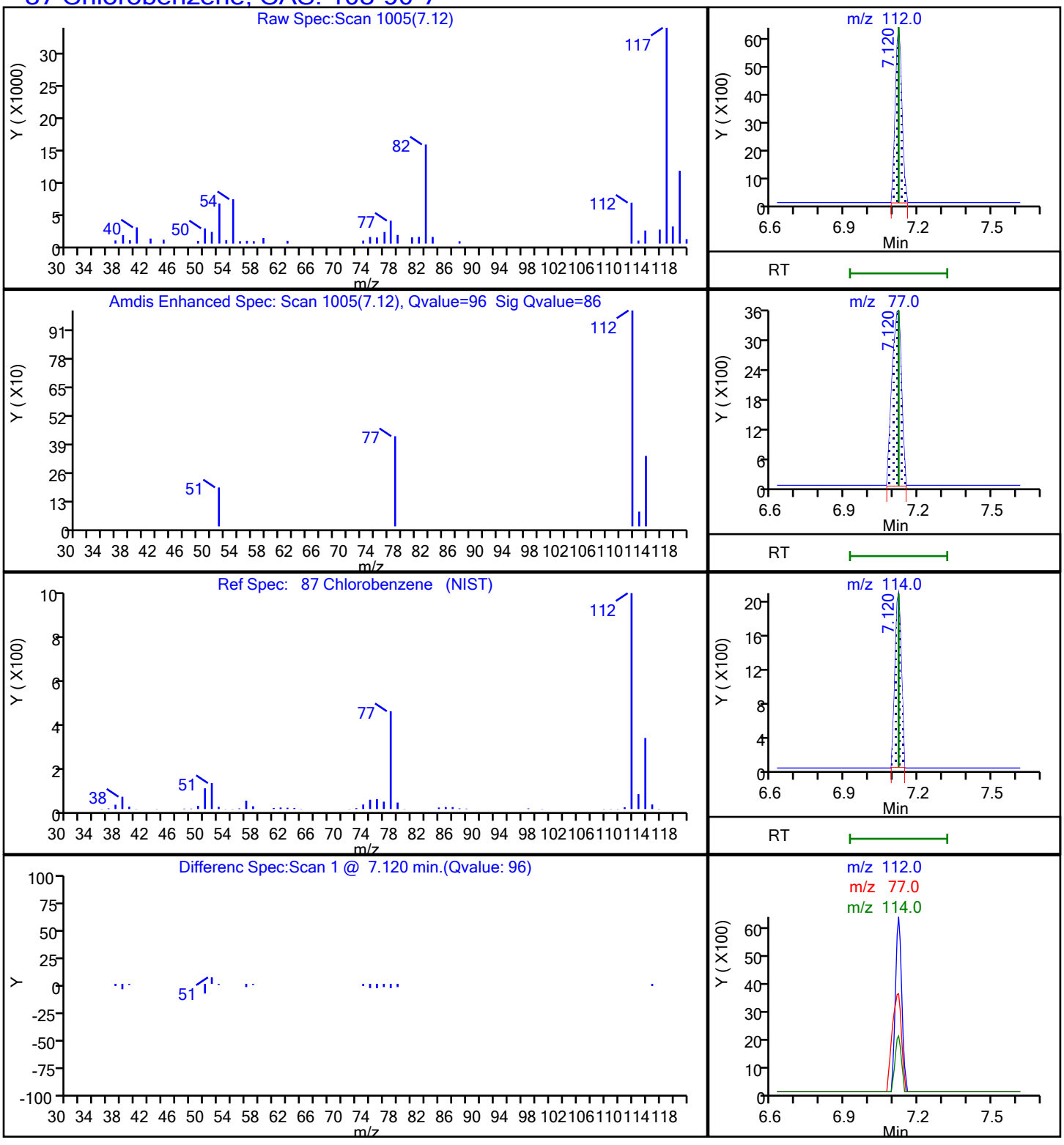
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8424.d

Injection Date:	29-Oct-2024 20:27:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-27	Lab Sample ID:	480-224872-27		
Client ID:	LR-50-102424				
Operator ID:	AK	ALS Bottle#:	20	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



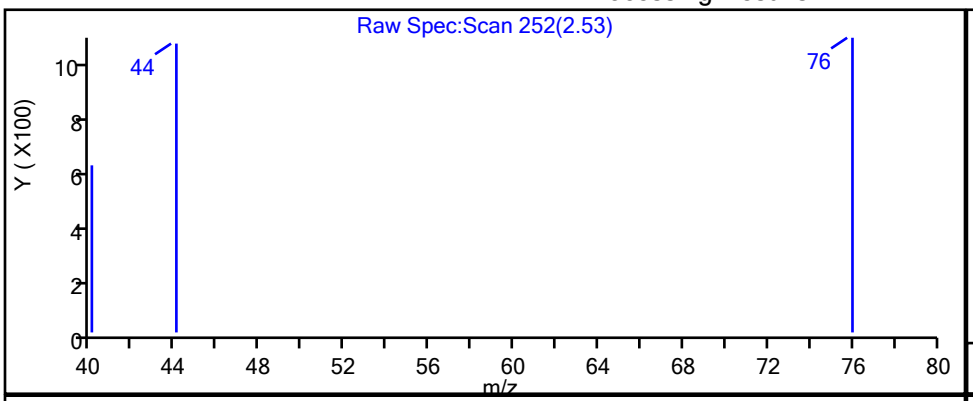
User Disabled Compound Report

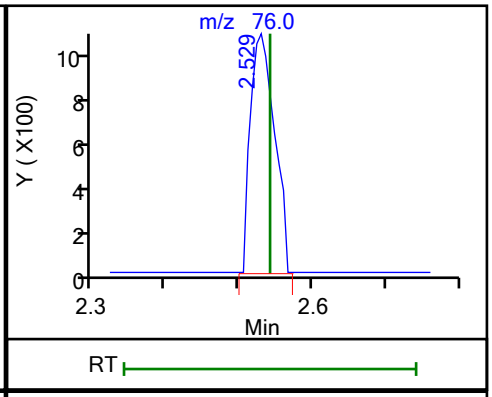
Eurofins Buffalo

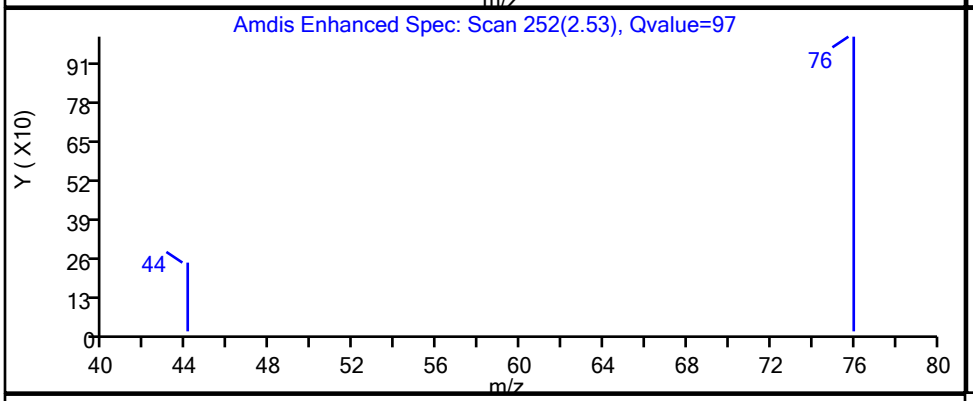
Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8424.d				
Injection Date:	29-Oct-2024 20:27:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-27	Lab Sample ID:	480-224872-27		
Client ID:	LR-50-102424				
Operator ID:	AK	ALS Bottle#:	20	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

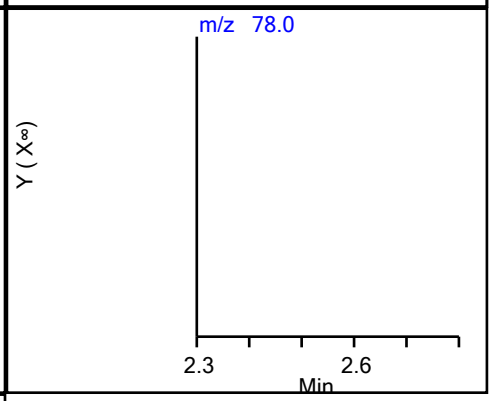
26 Carbon disulfide, CAS: 75-15-0

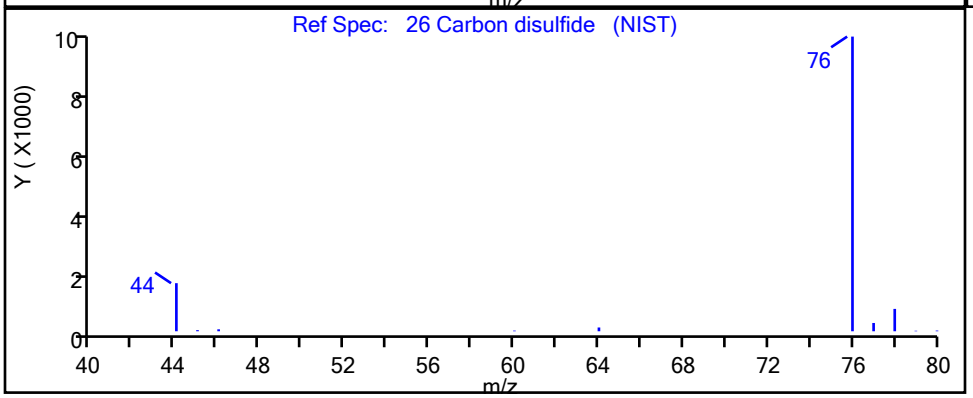
Processing Results











RT	Mass	Response	Amount
2.53	76.00	2429	0.169446
2.54	78.00	0	

Reviewer: R3QB, 30-Oct-2024 10:41:43 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-68-102424 | Lab Sample ID: 480-224872-28

Matrix: Water | Lab File ID: D8381.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:06

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 04:10

Soil Aliquot Vol: | Dilution Factor: 10000

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4100	U	10000	4100
75-15-0	Carbon disulfide	580000		10000	1900
56-23-5	Carbon tetrachloride	71000		10000	2700
108-90-7	Chlorobenzene	7500	U	10000	7500
67-66-3	Chloroform	86000		10000	3400
75-09-2	Methylene Chloride	4400	U	10000	4400
127-18-4	Tetrachloroethene	3600	U	10000	3600
108-88-3	Toluene	5100	U	10000	5100
79-01-6	Trichloroethene	4600	U	10000	4600

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8381.d
Lims ID: 480-224872-A-28
Client ID: R-68-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 04:10:30 ALS Bottle#: 46 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 10000.0000
Sample Info: 480-224872-A-28
Misc. Info.: 480-0120866-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:06:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	95999	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	207262	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	234591	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.001	92	177117	28.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	99127	28.3	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	494929	24.7	
26 Carbon disulfide	76	2.529	2.523	0.006	100	833951	57.8	
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.127	4.126	0.000	95	78921	8.59	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	47536	7.15	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

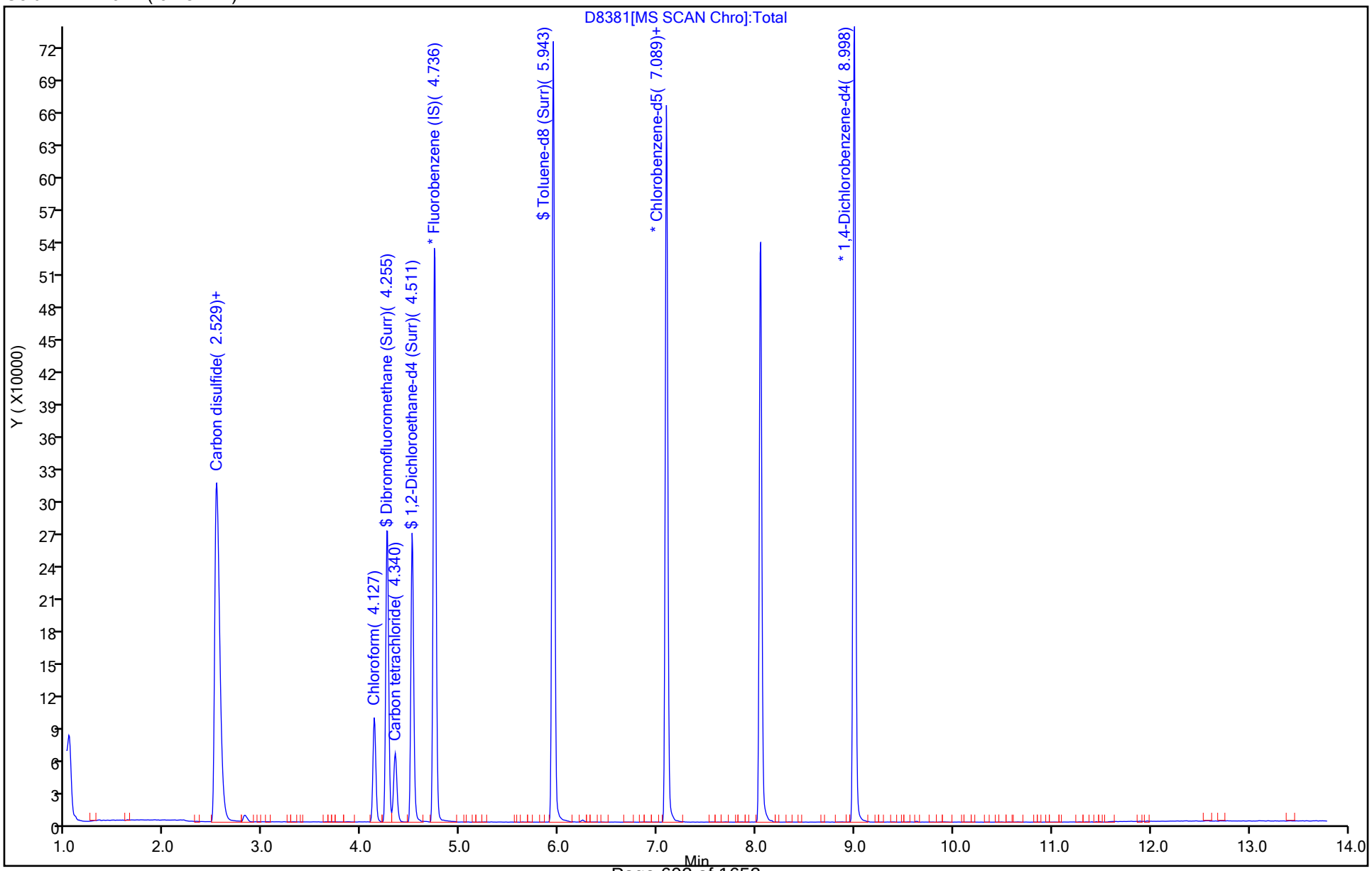
Report Date: 29-Oct-2024 14:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8381.d

Injection Date:	29-Oct-2024 04:10:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-28	Lab Sample ID:	480-224872-28	Worklist Smp#:	13
Client ID:	R-68-102424				
Purge Vol:	5.000 mL	Dil. Factor:	10000.0000	ALS Bottle#:	46
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8381.d
Lims ID: 480-224872-A-28
Client ID: R-68-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 04:10:30 ALS Bottle#: 46 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 10000.0000
Sample Info: 480-224872-A-28
Misc. Info.: 480-0120866-013
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:06:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.7	114.78
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.28
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.98

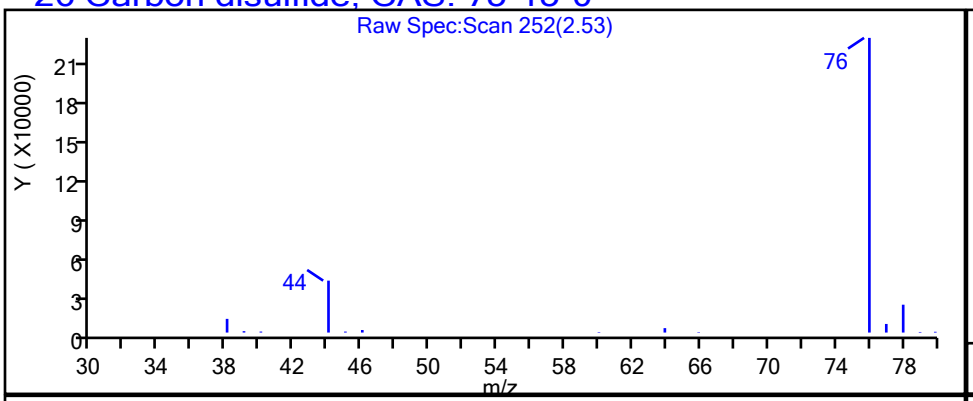
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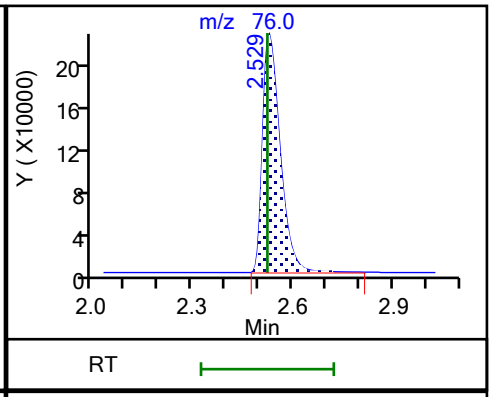
Eurofins Buffalo

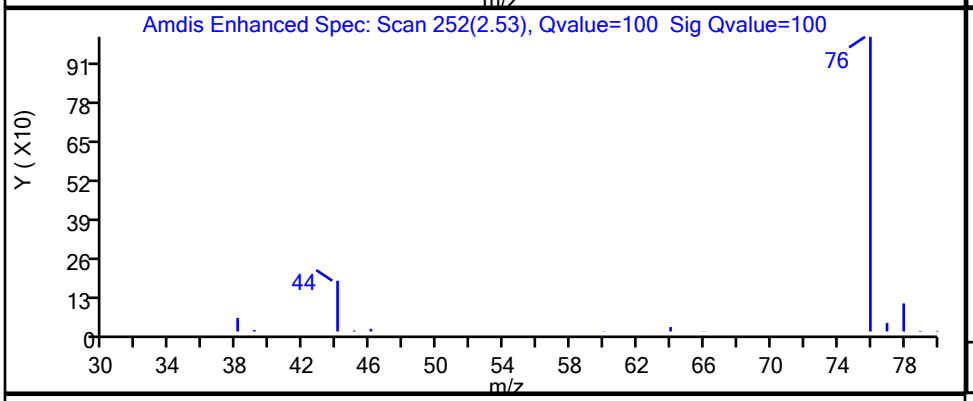
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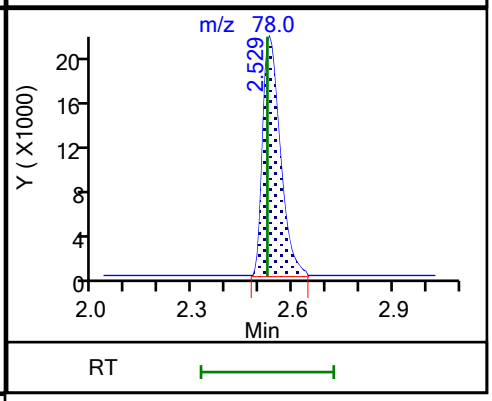
Injection Date:	29-Oct-2024 04:10:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-28	Lab Sample ID:	480-224872-28
Client ID:	R-68-102424		
Operator ID:	AK	ALS Bottle#:	46 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	10000.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

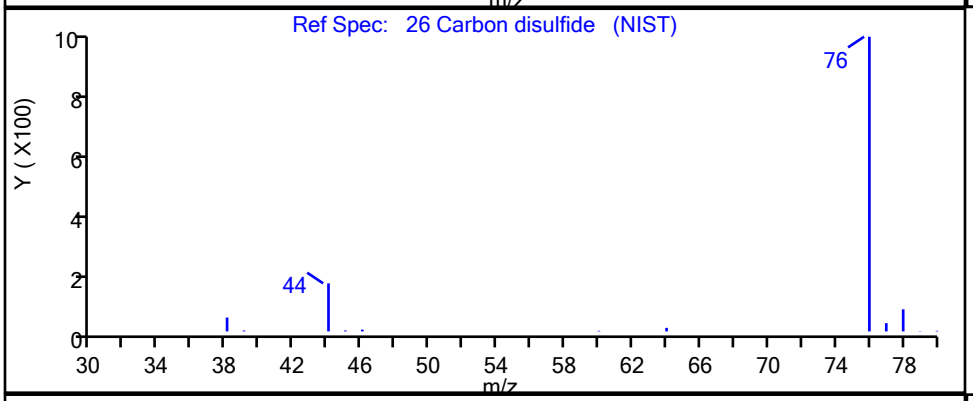
26 Carbon disulfide, CAS: 75-15-0

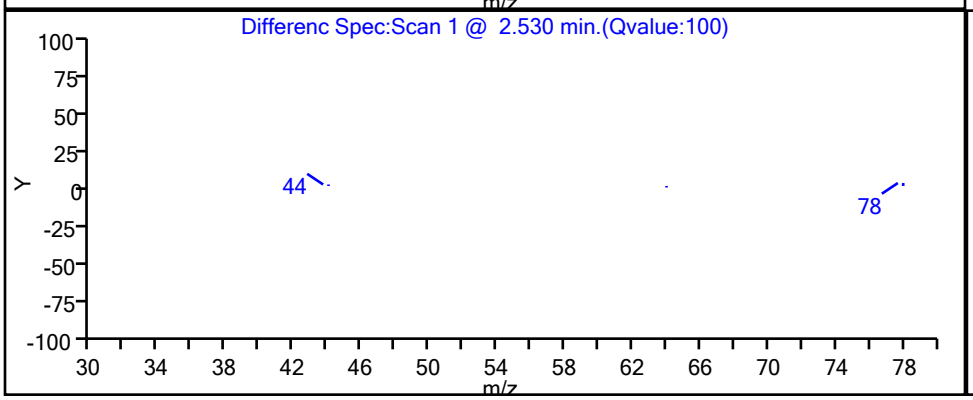


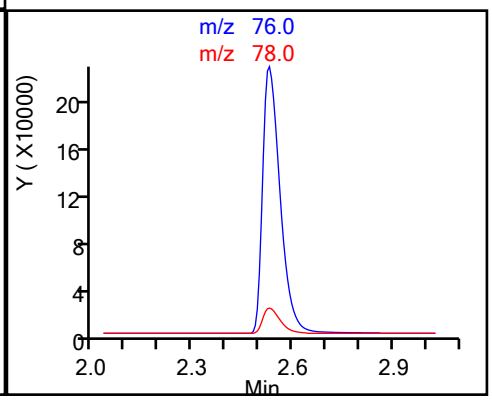












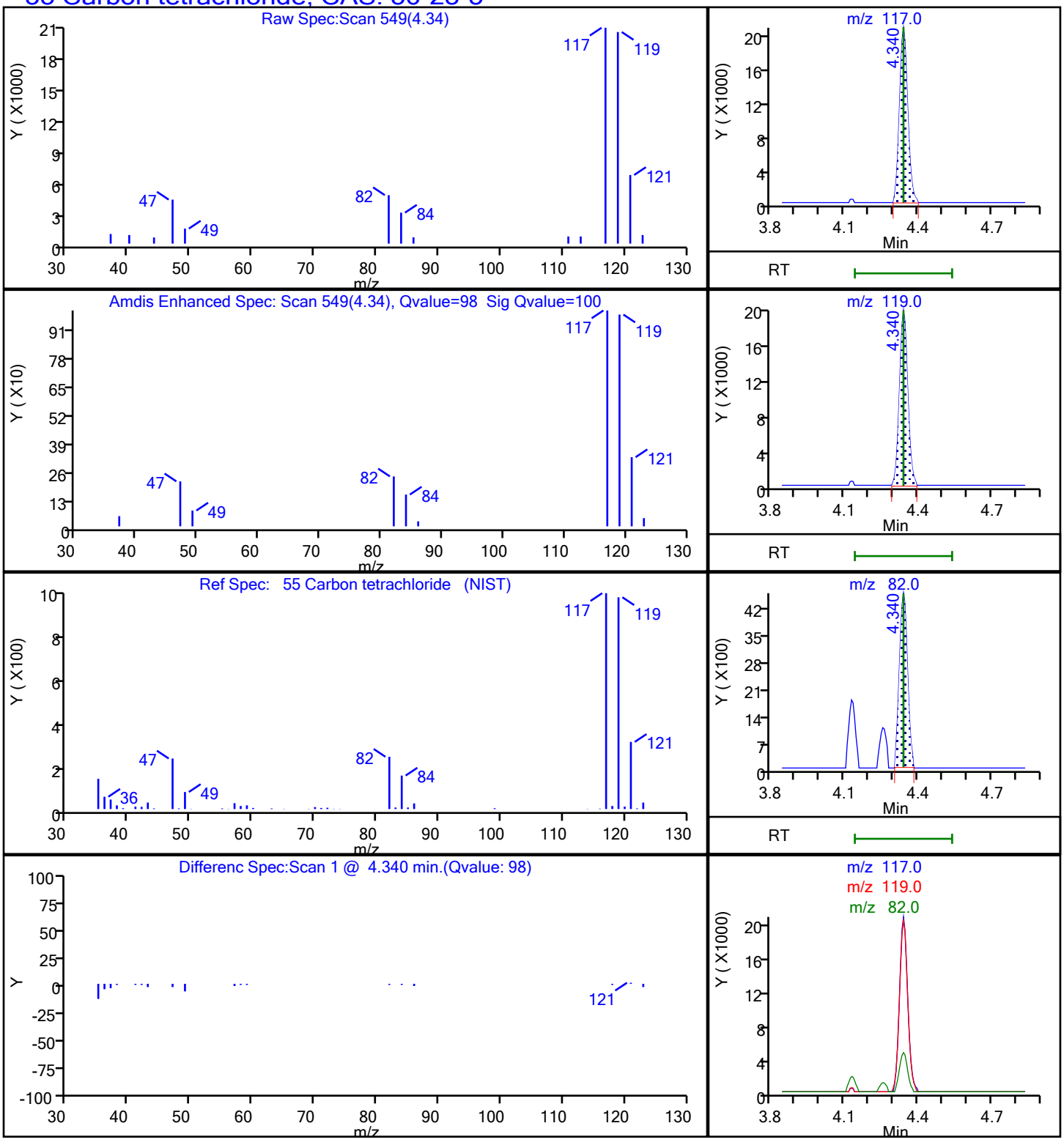
Report Date: 29-Oct-2024 14:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8381.d

Injection Date:	29-Oct-2024 04:10:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-28	Lab Sample ID:	480-224872-28
Client ID:	R-68-102424		
Operator ID:	AK	ALS Bottle#:	46 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	10000.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5



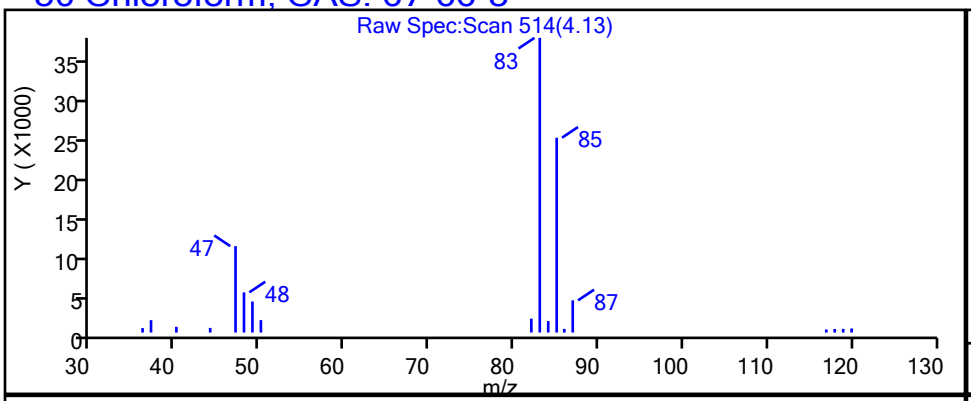
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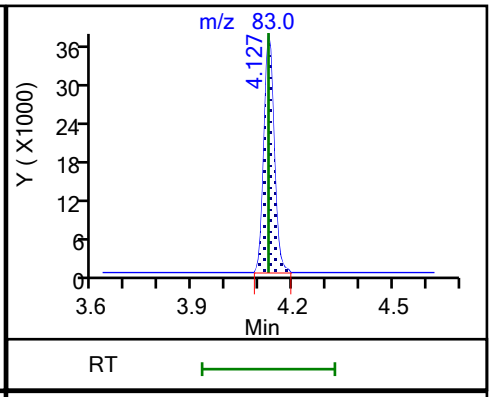
Eurofins Buffalo

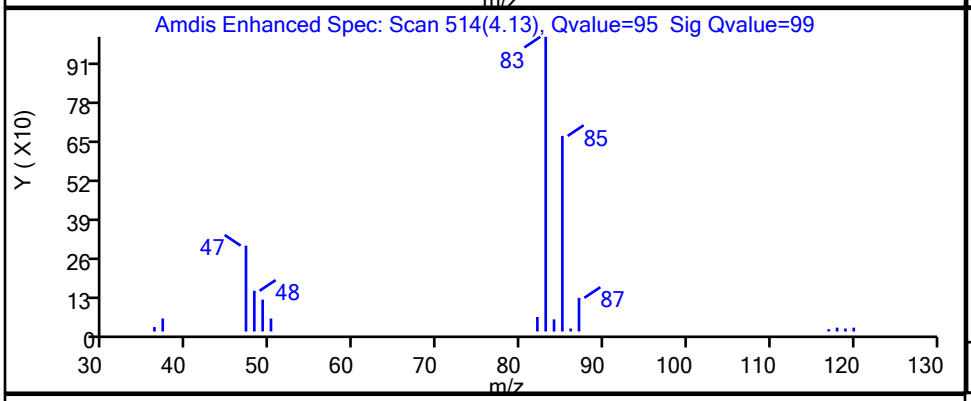
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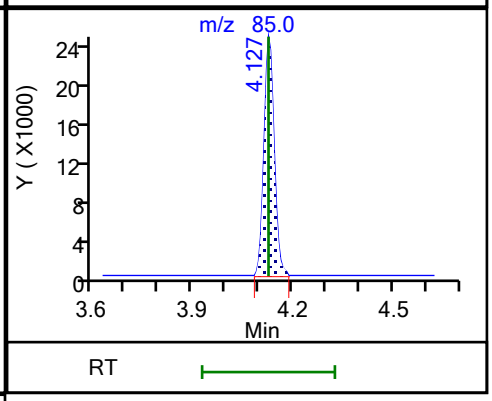
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Lims ID:	480-224872-A-28	Lab Sample ID:	480-224872-28
Client ID:	R-68-102424		
Operator ID:	AK	ALS Bottle#:	46 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	10000.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

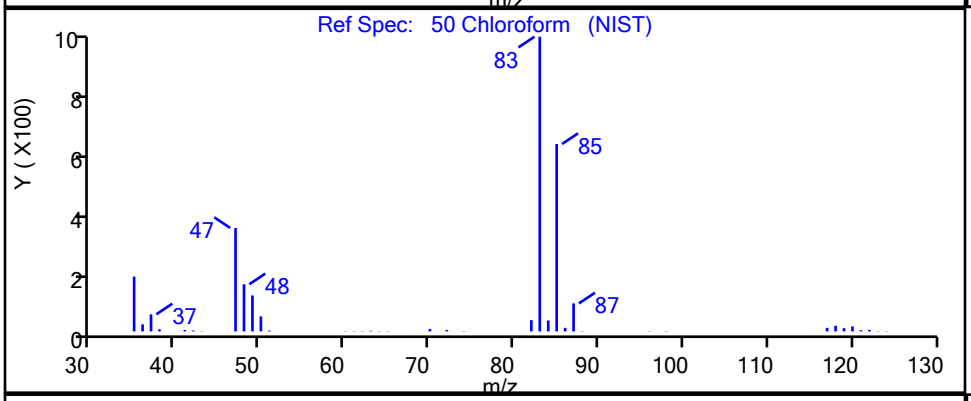
50 Chloroform, CAS: 67-66-3

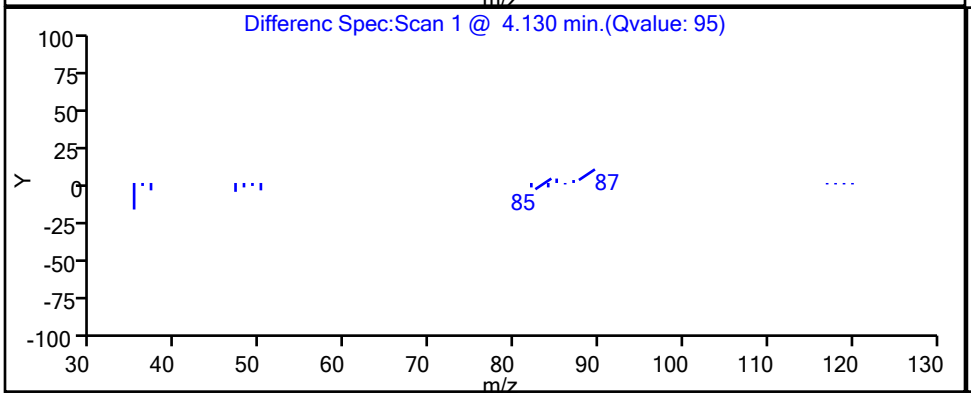


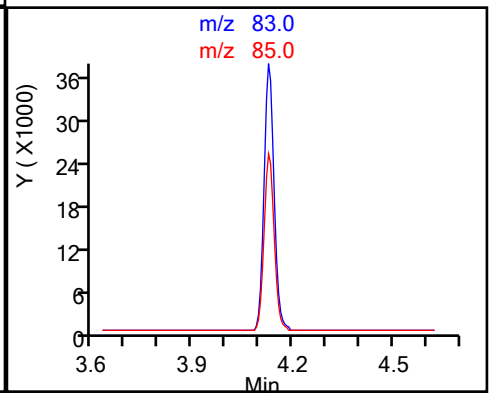












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: L-16-102424 | Lab Sample ID: 480-224872-29

Matrix: Water | Lab File ID: D8425.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 20:49

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	14		1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.38	J	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	2.9		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Report Date: 30-Oct-2024 10:42:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8425.d
Lims ID: 480-224872-B-29
Client ID: L-16-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:49:30 ALS Bottle#: 21 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-29
Misc. Info.: 480-0120894-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	94286	25.0	
* 2 Chlorobenzene-d5	82	7.096	7.095	0.001	87	202419	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	234941	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	92	175075	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	97912	28.5	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	483241	24.7	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	201869	14.3	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83		4.133				ND	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78	4.523	4.523	0.000	71	2514	0.1494	
62 Trichloroethene	95	5.023	5.023	0.000	95	13878	2.88	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.413	0.006	84	2024	0.3757	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

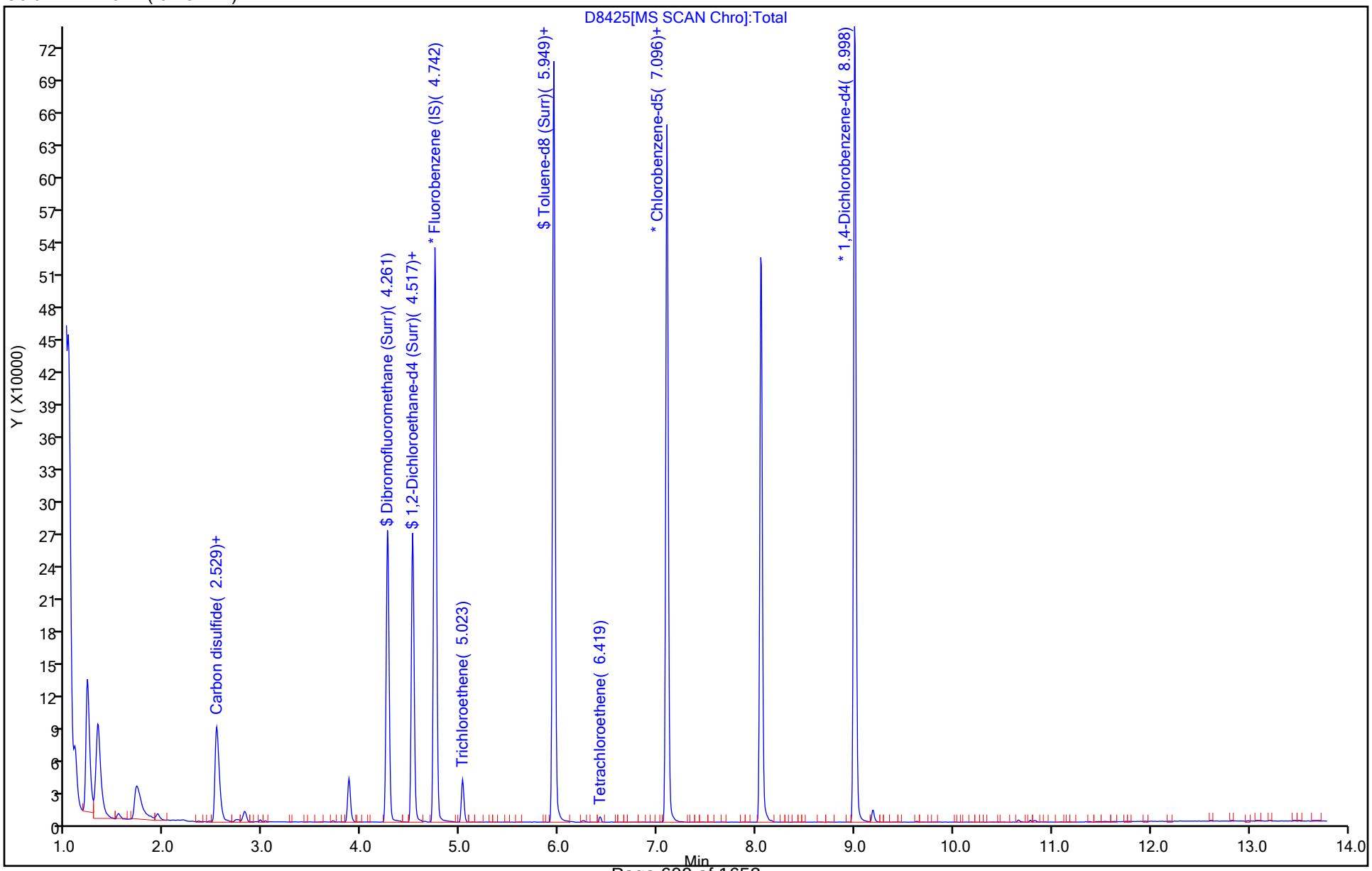
Report Date: 30-Oct-2024 10:42:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8425.d

Injection Date:	29-Oct-2024 20:49:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-29	Lab Sample ID:	480-224872-29	Worklist Smp#:	23
Client ID:	L-16-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8425.d
Lims ID: 480-224872-B-29
Client ID: L-16-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 20:49:30 ALS Bottle#: 21 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-29
Misc. Info.: 480-0120894-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.52
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	113.92
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.95

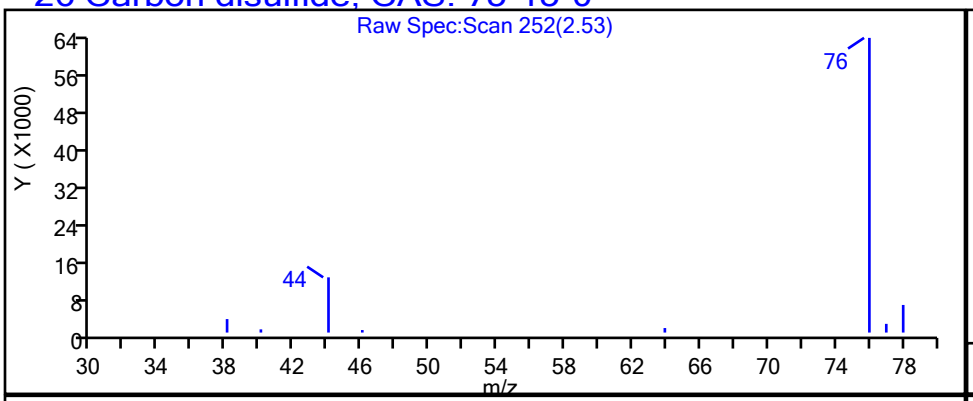
Report Date: 30-Oct-2024 10:42:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

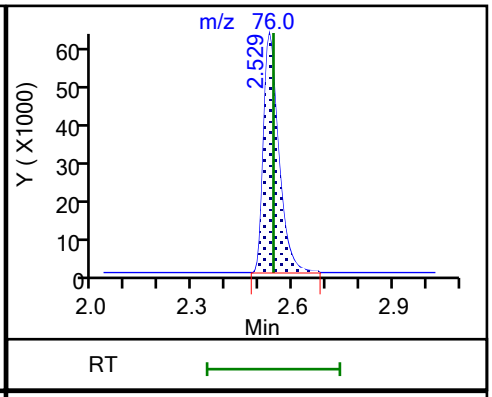
Eurofins Buffalo

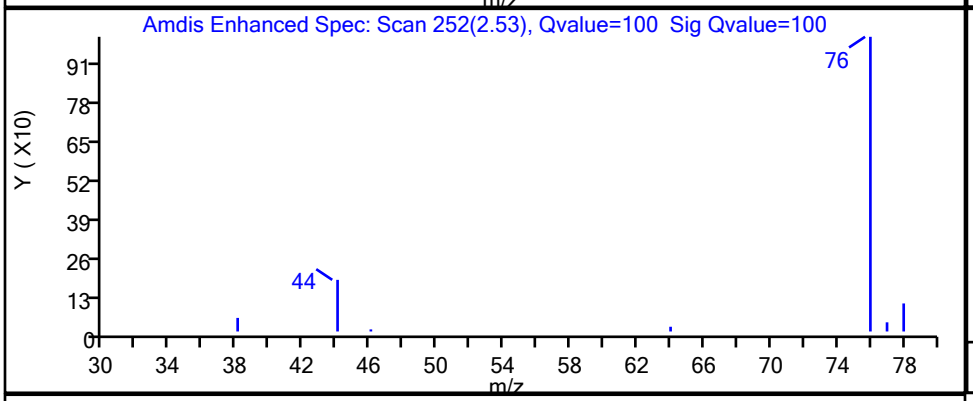
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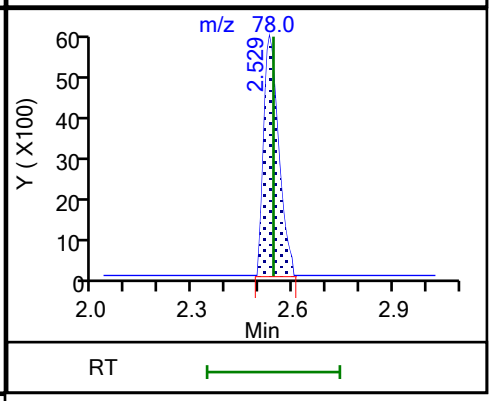
Injection Date:	29-Oct-2024 20:49:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-29	Lab Sample ID:	480-224872-29
Client ID:	L-16-102424		
Operator ID:	AK	ALS Bottle#:	21 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

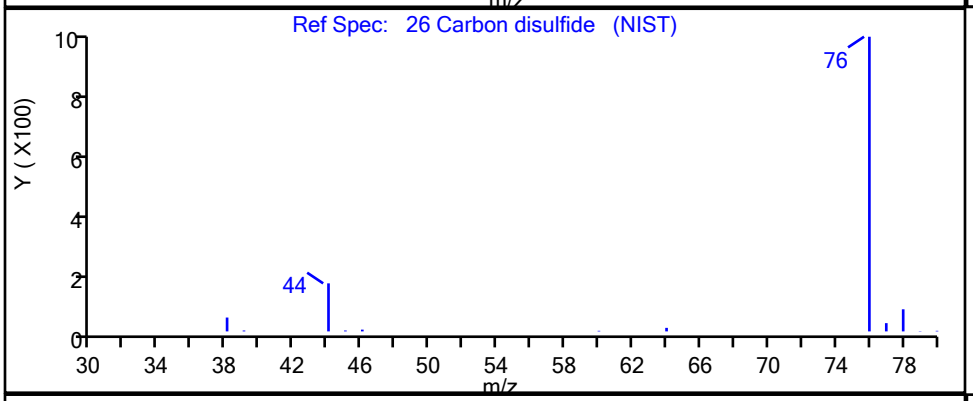
26 Carbon disulfide, CAS: 75-15-0

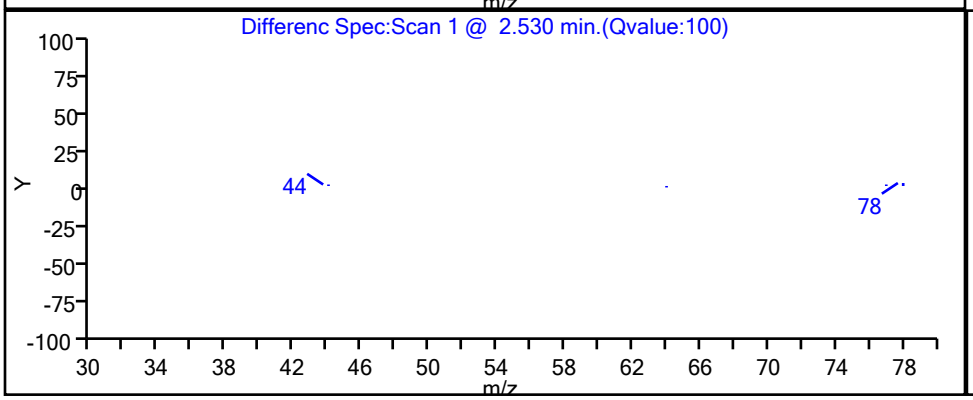


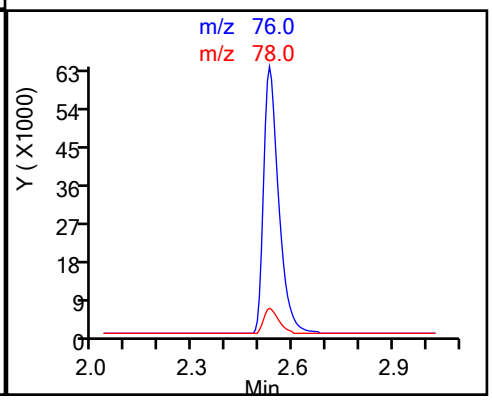












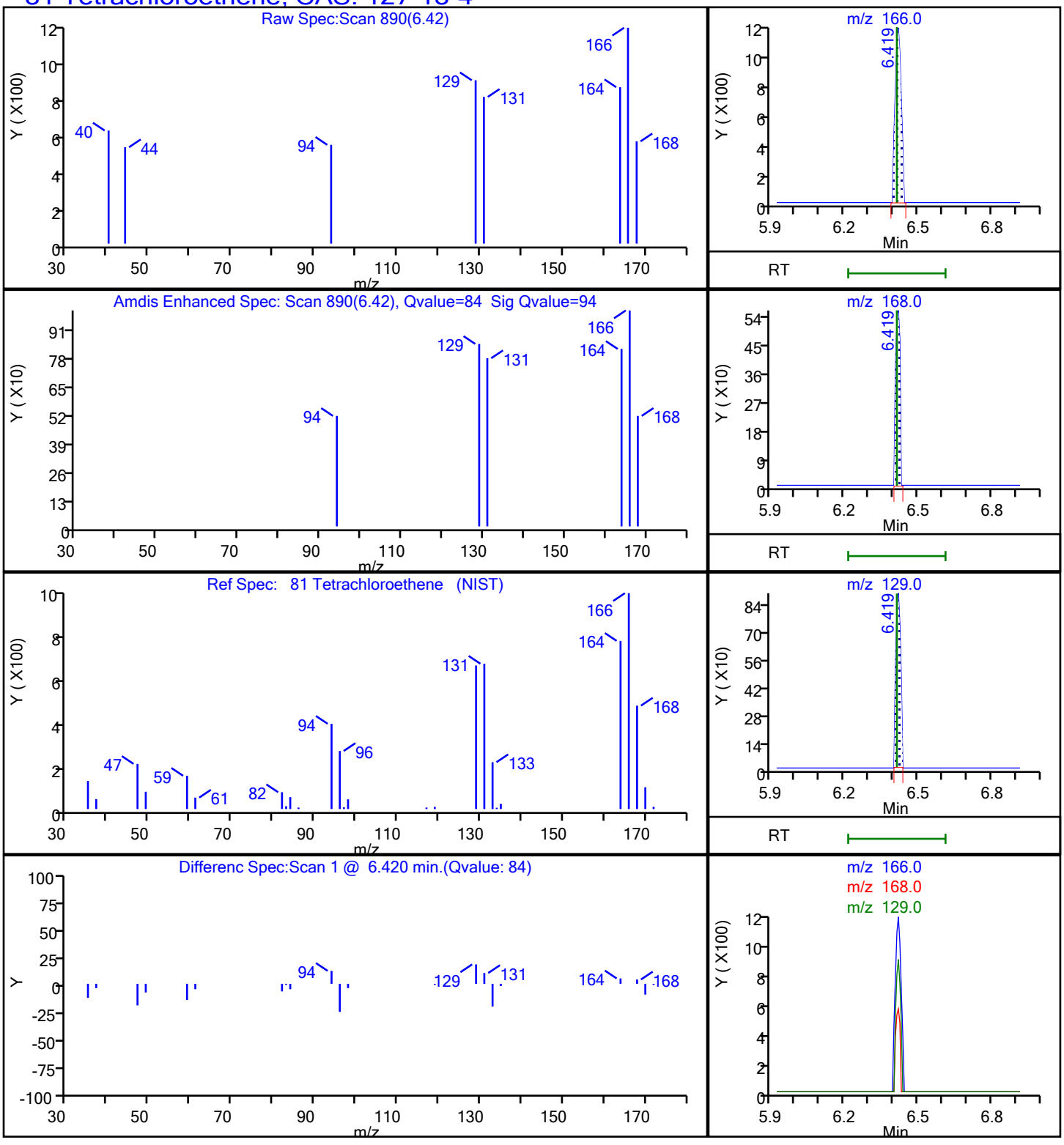
Report Date: 30-Oct-2024 10:42:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8425.d

Injection Date:	29-Oct-2024 20:49:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-29	Lab Sample ID:	480-224872-29		
Client ID:	L-16-102424				
Operator ID:	AK	ALS Bottle#:	21	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



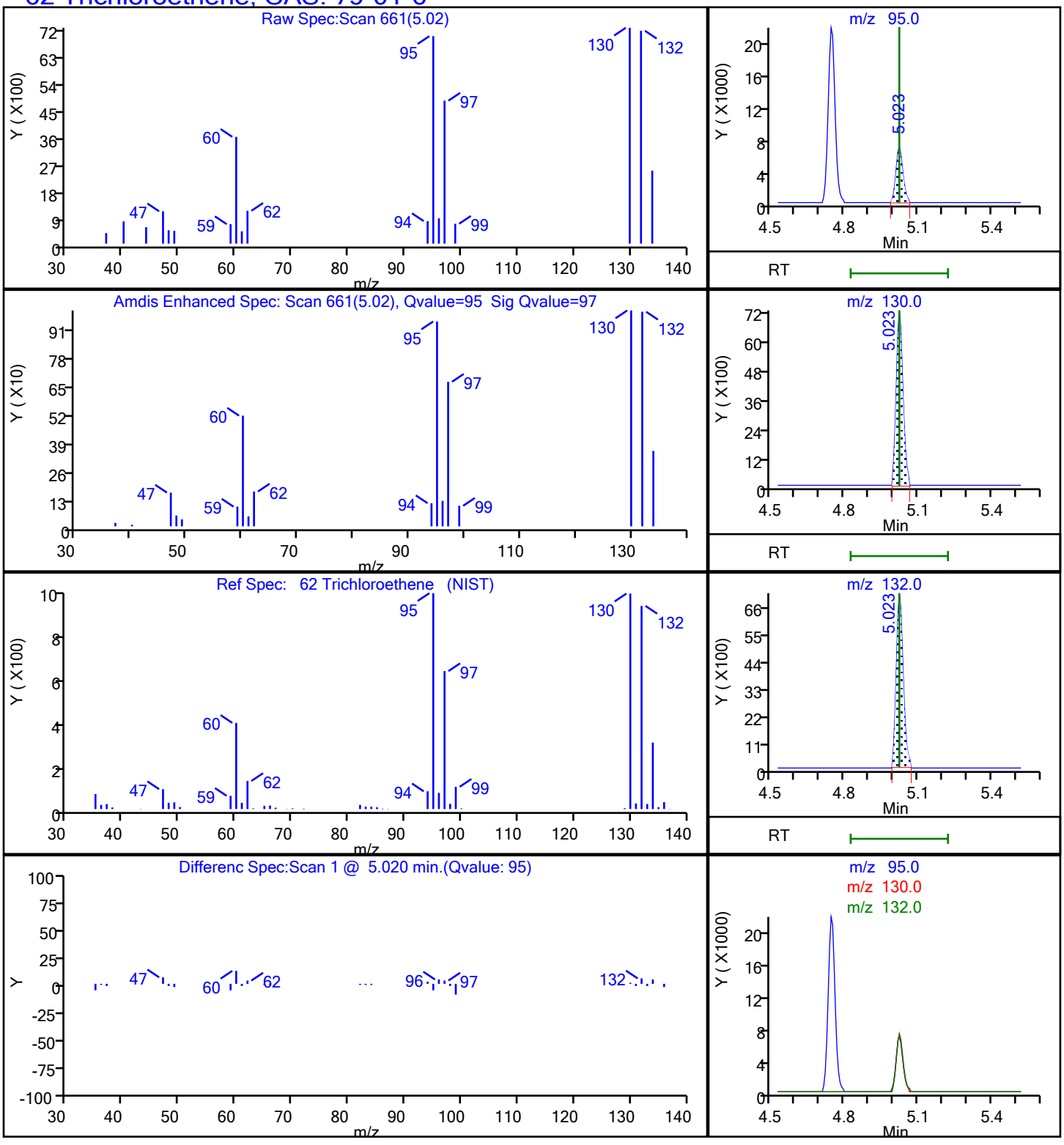
Report Date: 30-Oct-2024 10:42:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8425.d

Injection Date:	29-Oct-2024 20:49:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-29	Lab Sample ID:	480-224872-29
Client ID:	L-16-102424		
Operator ID:	AK	ALS Bottle#:	21 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-16L-102424 | Lab Sample ID: 480-224872-30

Matrix: Water | Lab File ID: D8426.d

Analysis Method: 8260C | Date Collected: 10/24/2024 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 21:11

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	8.6		1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8426.d
Lims ID: 480-224872-B-30
Client ID: W-16L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 21:11:30 ALS Bottle#: 22 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-30
Misc. Info.: 480-0120894-024
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	96009	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	196626	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	8.997	0.007	95	238318	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	92	174275	28.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	99094	28.3	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	477762	25.2	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	124316	8.62	
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83		4.133				ND	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

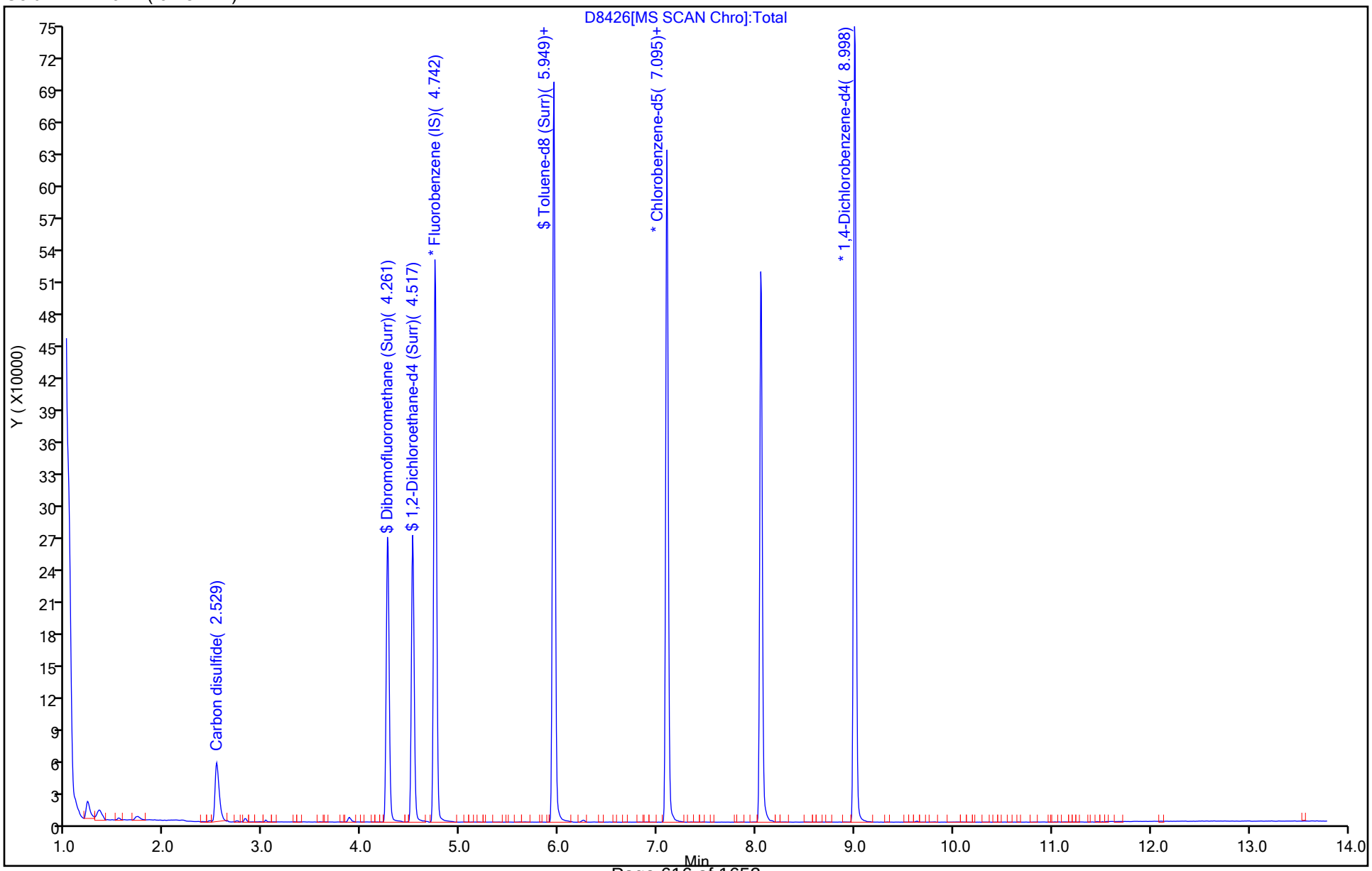
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8426.d

Injection Date:	29-Oct-2024 21:11:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-30	Lab Sample ID:	480-224872-30	Worklist Smp#:	24
Client ID:	W-16L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8426.d
Lims ID: 480-224872-B-30
Client ID: W-16L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 21:11:30 ALS Bottle#: 22 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-30
Misc. Info.: 480-0120894-024
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:41:51 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.2	112.93
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.23
$ 5 Toluene-d8 (Surr)	25.0	25.2	100.71

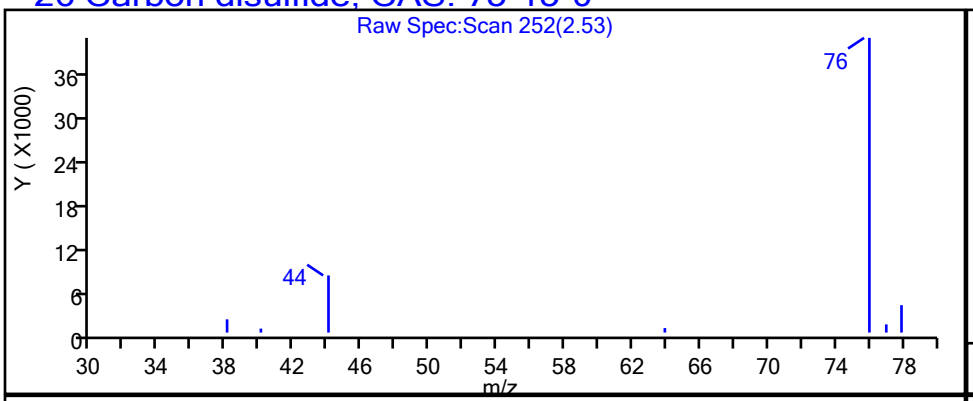
Report Date: 30-Oct-2024 10:42:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

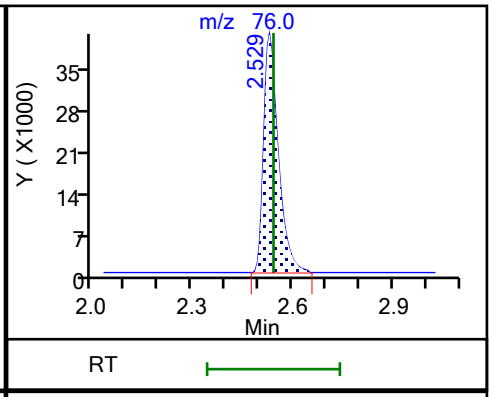
Eurofins Buffalo

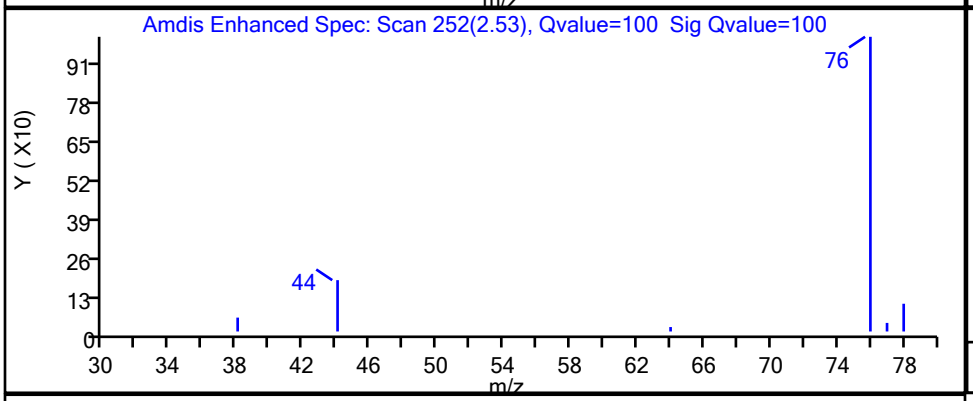
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8426.d

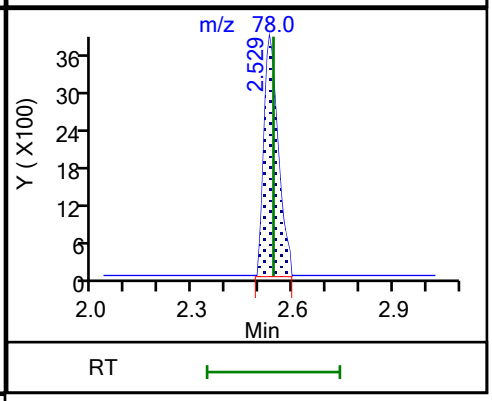
Injection Date:	29-Oct-2024 21:11:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-30	Lab Sample ID:	480-224872-30
Client ID:	W-16L-102424		
Operator ID:	AK	ALS Bottle#:	22 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

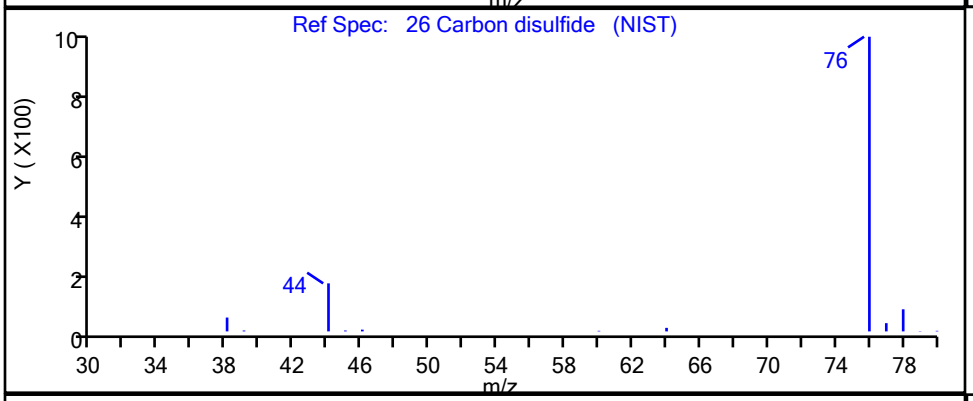
26 Carbon disulfide, CAS: 75-15-0

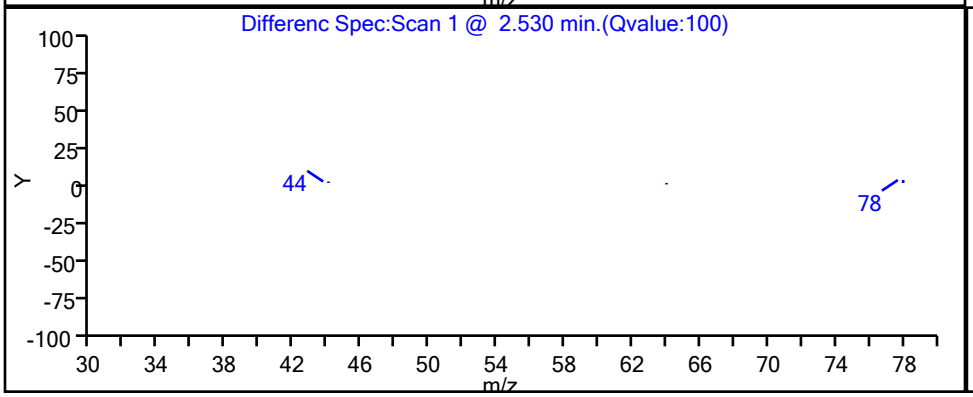


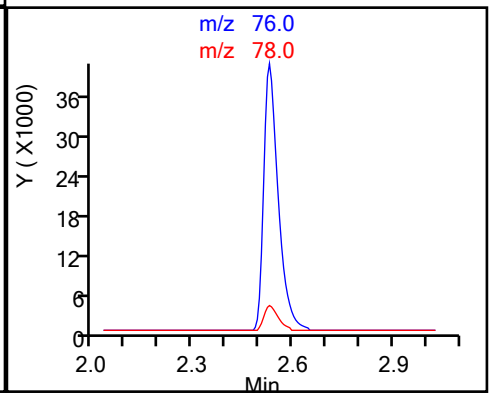












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-16-102424 | Lab Sample ID: 480-224872-31

Matrix: Water | Lab File ID: D8384.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:07

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 05:16

Soil Aliquot Vol: | Dilution Factor: 20

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	140		20	8.2
75-15-0	Carbon disulfide	3.8	U	20	3.8
56-23-5	Carbon tetrachloride	5.4	U	20	5.4
108-90-7	Chlorobenzene	15	U	20	15
67-66-3	Chloroform	6.8	U	20	6.8
75-09-2	Methylene Chloride	8.8	U	20	8.8
127-18-4	Tetrachloroethene	7.2	U	20	7.2
108-88-3	Toluene	50		20	10
79-01-6	Trichloroethene	9.2	U	20	9.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8384.d
Lims ID: 480-224872-A-31
Client ID: R-16-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 05:16:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-224872-A-31
Misc. Info.: 480-0120866-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:08:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	97718	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	201360	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	235268	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	92	174969	27.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	99	96626	27.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	479081	24.7	
26 Carbon disulfide	76		2.523				ND	
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.126	4.126	0.000	83	1234	0.1320	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78	4.517	4.517	0.000	96	120927	6.93	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92	5.992	5.992	0.000	97	27550	2.48	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

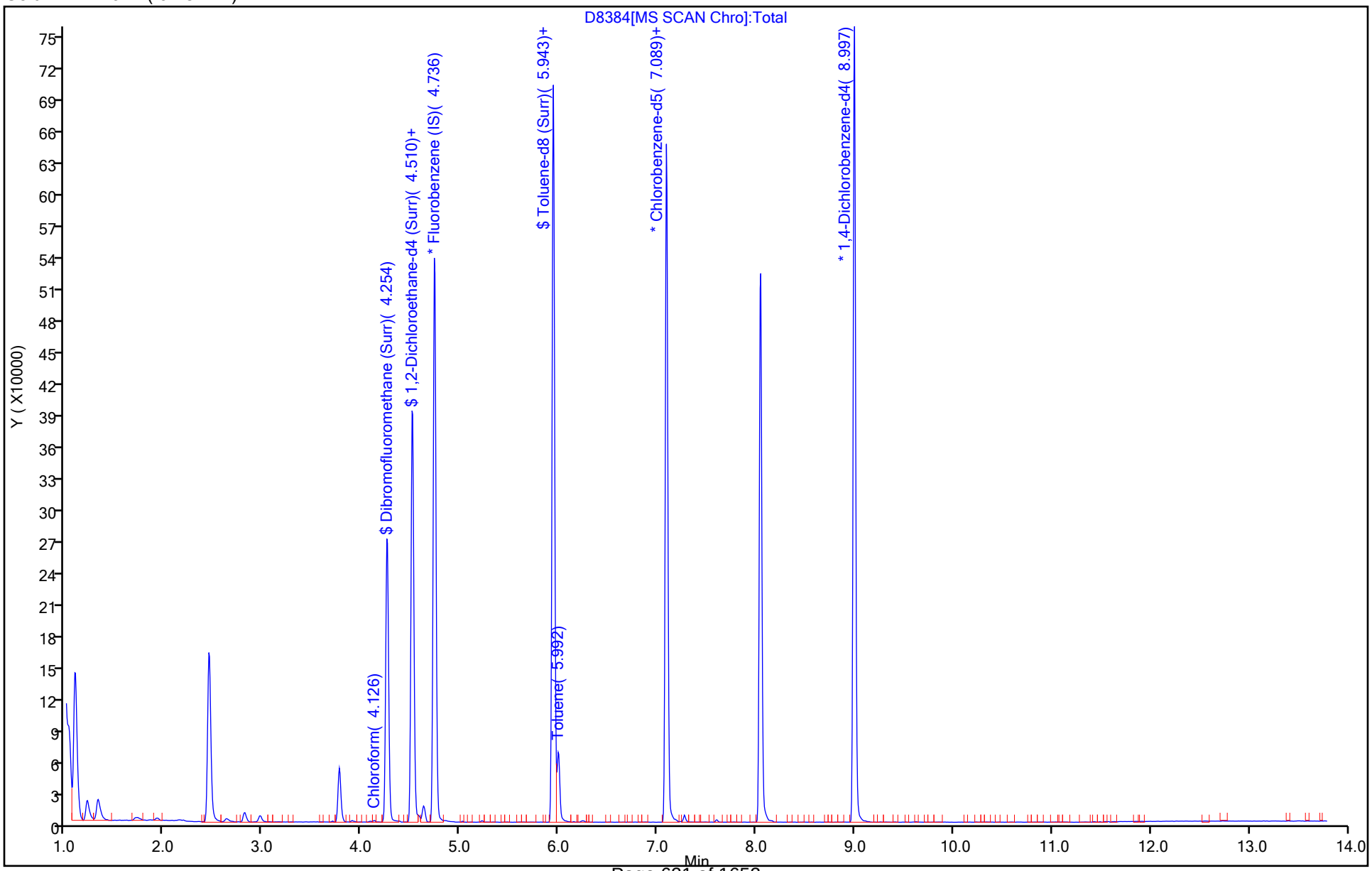
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8384.d

Injection Date:	29-Oct-2024 05:16:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-31	Lab Sample ID:	480-224872-31	Worklist Smp#:	16
Client ID:	R-16-102424				
Purge Vol:	5.000 mL	Dil. Factor:	20.0000	ALS Bottle#:	49
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8384.d
Lims ID: 480-224872-A-31
Client ID: R-16-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 05:16:30 ALS Bottle#: 49 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 20.0000
Sample Info: 480-224872-A-31
Misc. Info.: 480-0120866-016
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:05:32 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:08:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.8	111.40
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.1	108.48
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.62

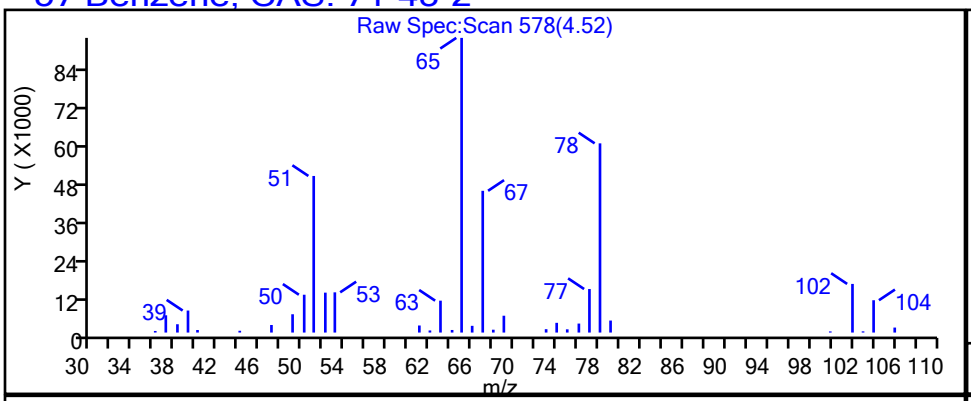
Report Date: 29-Oct-2024 14:08:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

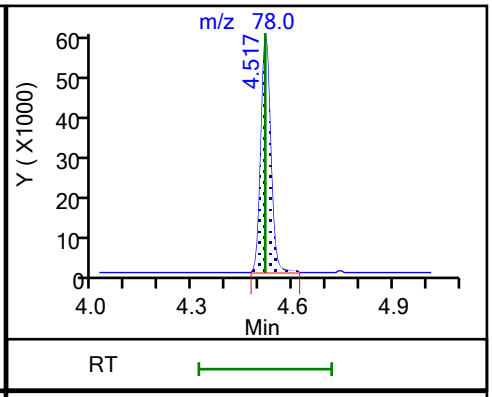
Eurofins Buffalo

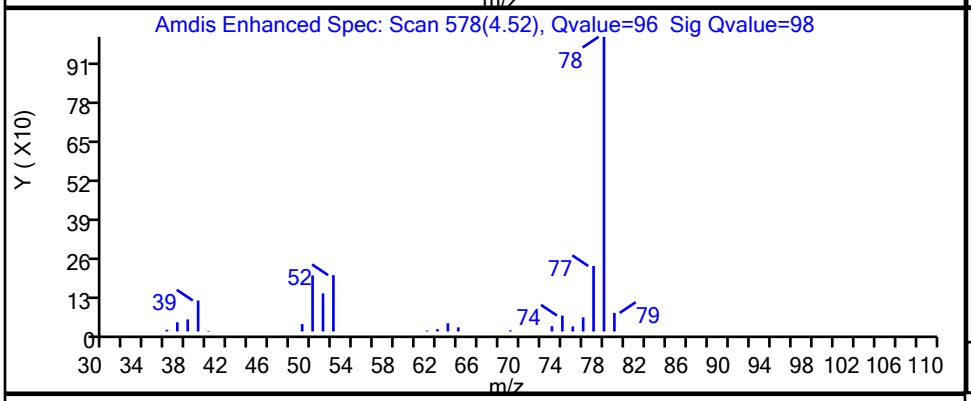
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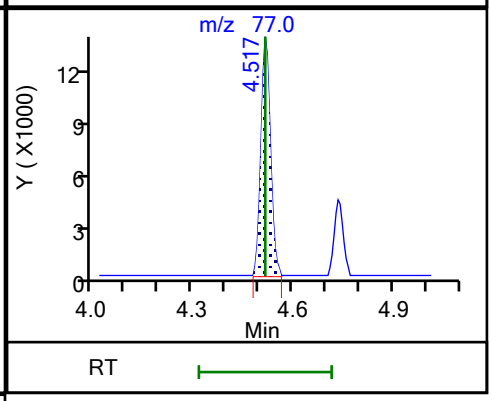
Injection Date:	29-Oct-2024 05:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-31	Lab Sample ID:	480-224872-31		
Client ID:	R-16-102424				
Operator ID:	AK	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

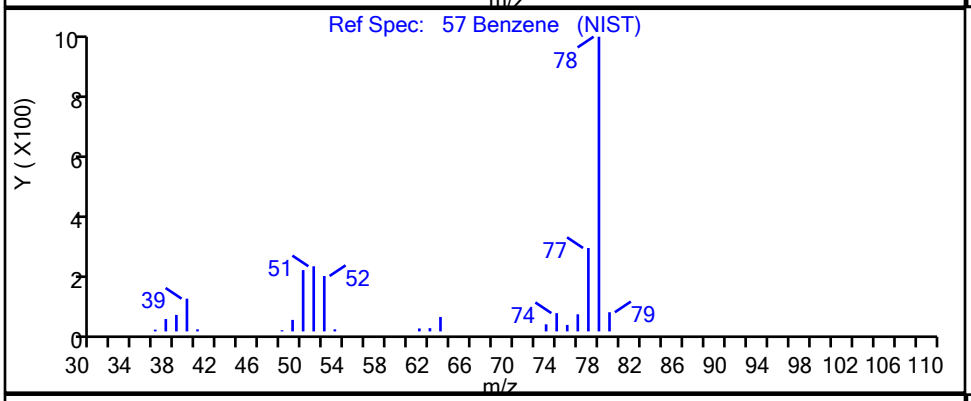
57 Benzene, CAS: 71-43-2

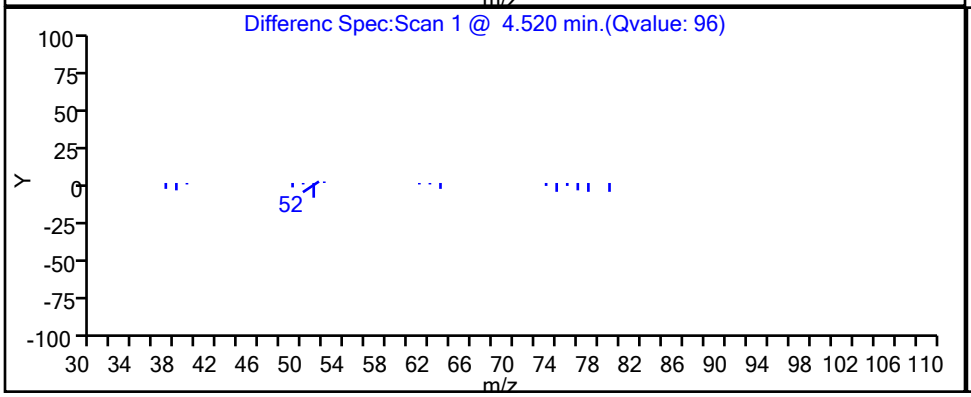


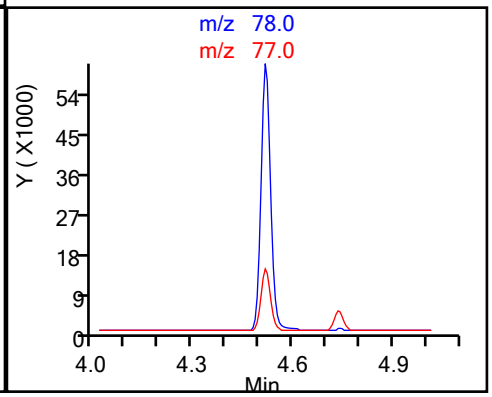












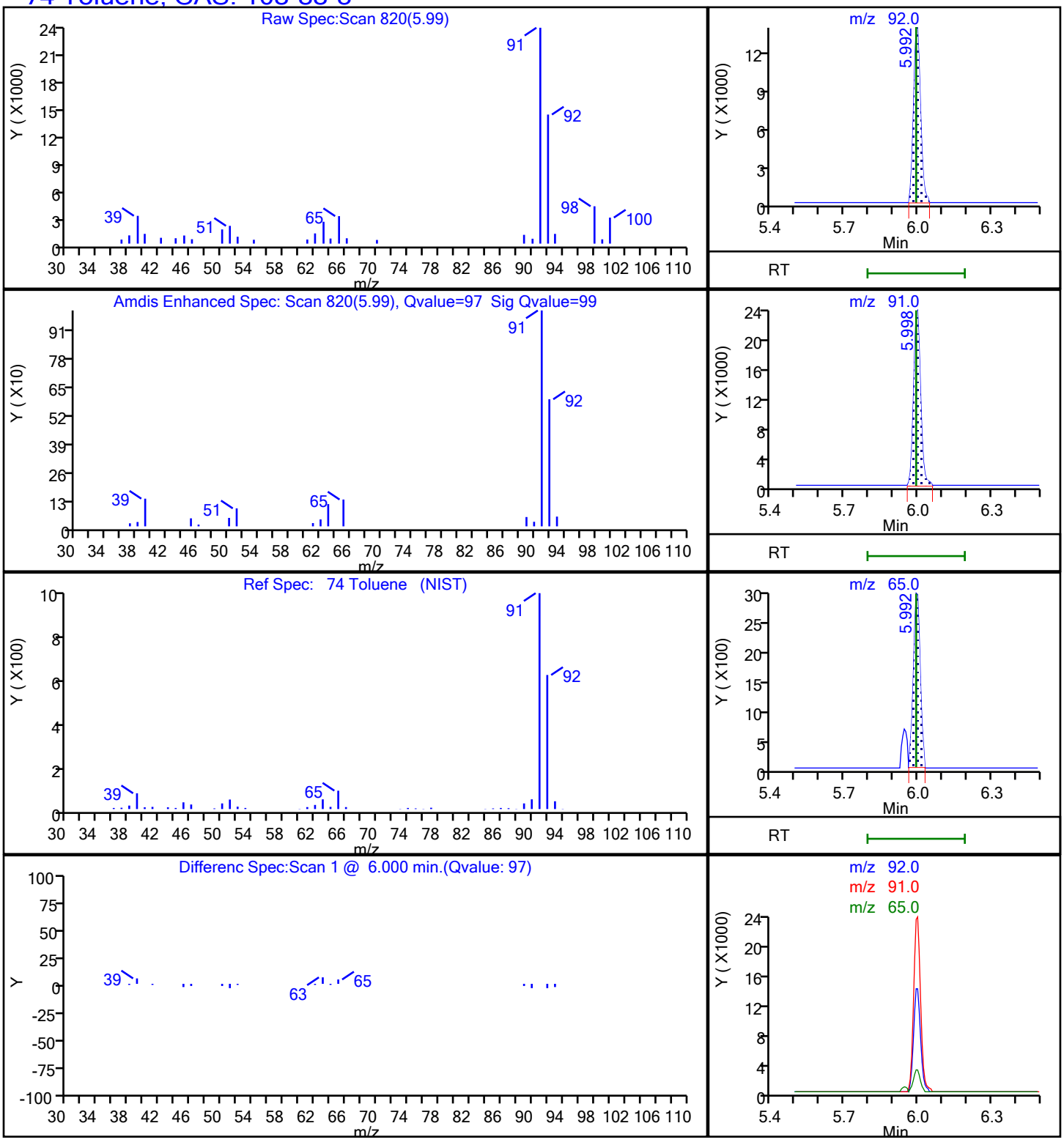
Report Date: 29-Oct-2024 14:08:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8384.d

Injection Date:	29-Oct-2024 05:16:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-31	Lab Sample ID:	480-224872-31		
Client ID:	R-16-102424				
Operator ID:	AK	ALS Bottle#:	49	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	20.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

74 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-16-102424 | Lab Sample ID: 480-224872-32

Matrix: Water | Lab File ID: D8427.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:22

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 21:33

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	1.4		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	23		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	17		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d
Lims ID: 480-224872-B-32
Client ID: W-16-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 21:33:30 ALS Bottle#: 23 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-32
Misc. Info.: 480-0120894-025
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:26 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	93115	25.0	
* 2 Chlorobenzene-d5	82	7.096	7.095	0.001	87	195771	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	232753	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	92	173091	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	96287	28.4	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	476121	25.2	
26 Carbon disulfide	76		2.541				ND	U
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.133	4.133	0.000	93	12342	1.39	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78		4.523				ND	
62 Trichloroethene	95	5.023	5.023	0.000	96	80375	16.9	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166	6.419	6.413	0.006	96	119510	22.9	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

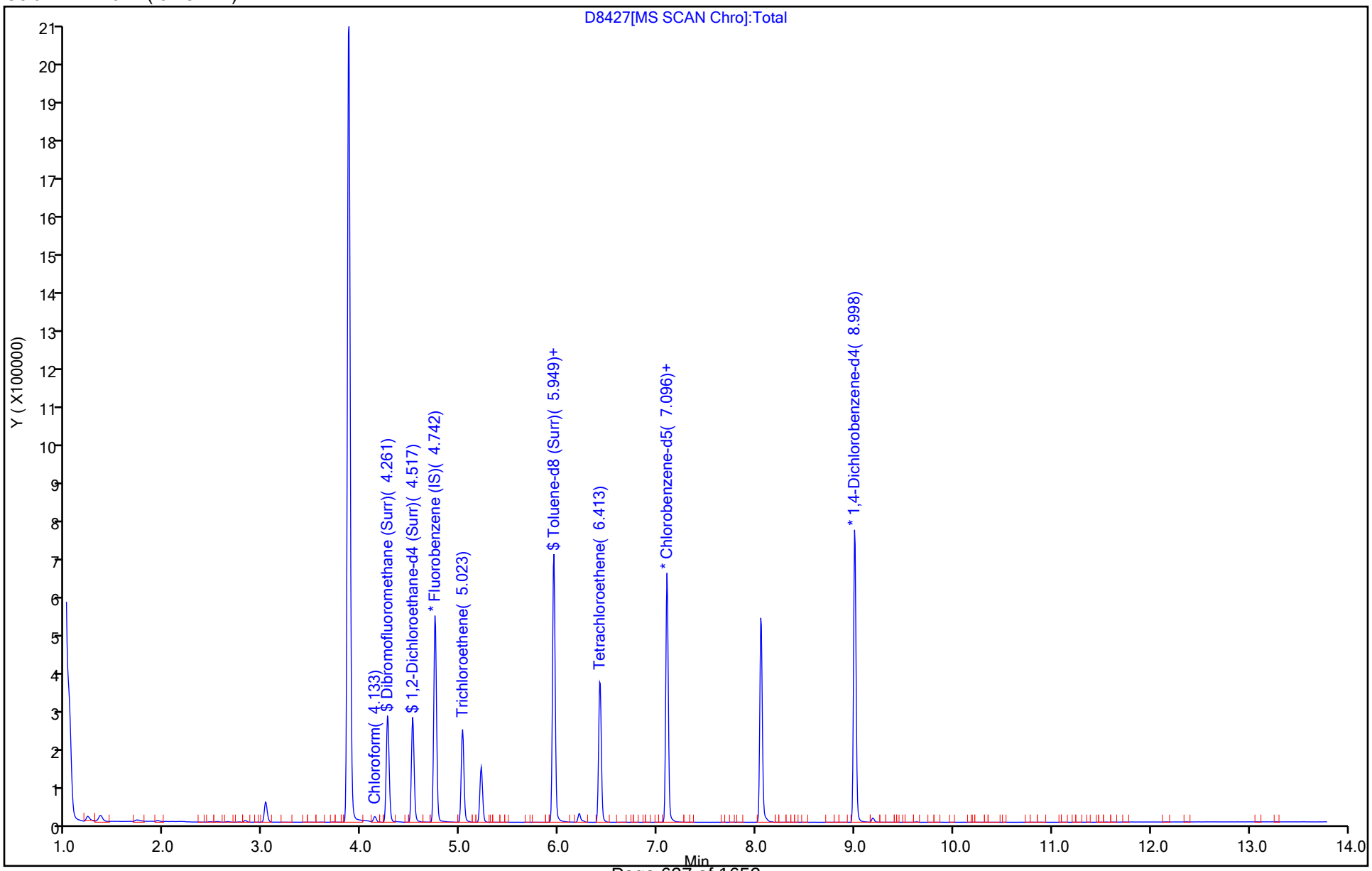
Report Date: 30-Oct-2024 10:42:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d

Injection Date:	29-Oct-2024 21:33:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-32	Lab Sample ID:	480-224872-32	Worklist Smp#:	25
Client ID:	W-16-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d				
Lims ID:	480-224872-B-32				
Client ID:	W-16-102424				
Sample Type:	Client				
Inject. Date:	29-Oct-2024 21:33:30	ALS Bottle#:	23	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-224872-B-32				
Misc. Info.:	480-0120894-025				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	30-Oct-2024 10:42:26	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1639				

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:26

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.65
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.4	113.44
$ 5 Toluene-d8 (Surr)	25.0	25.2	100.81

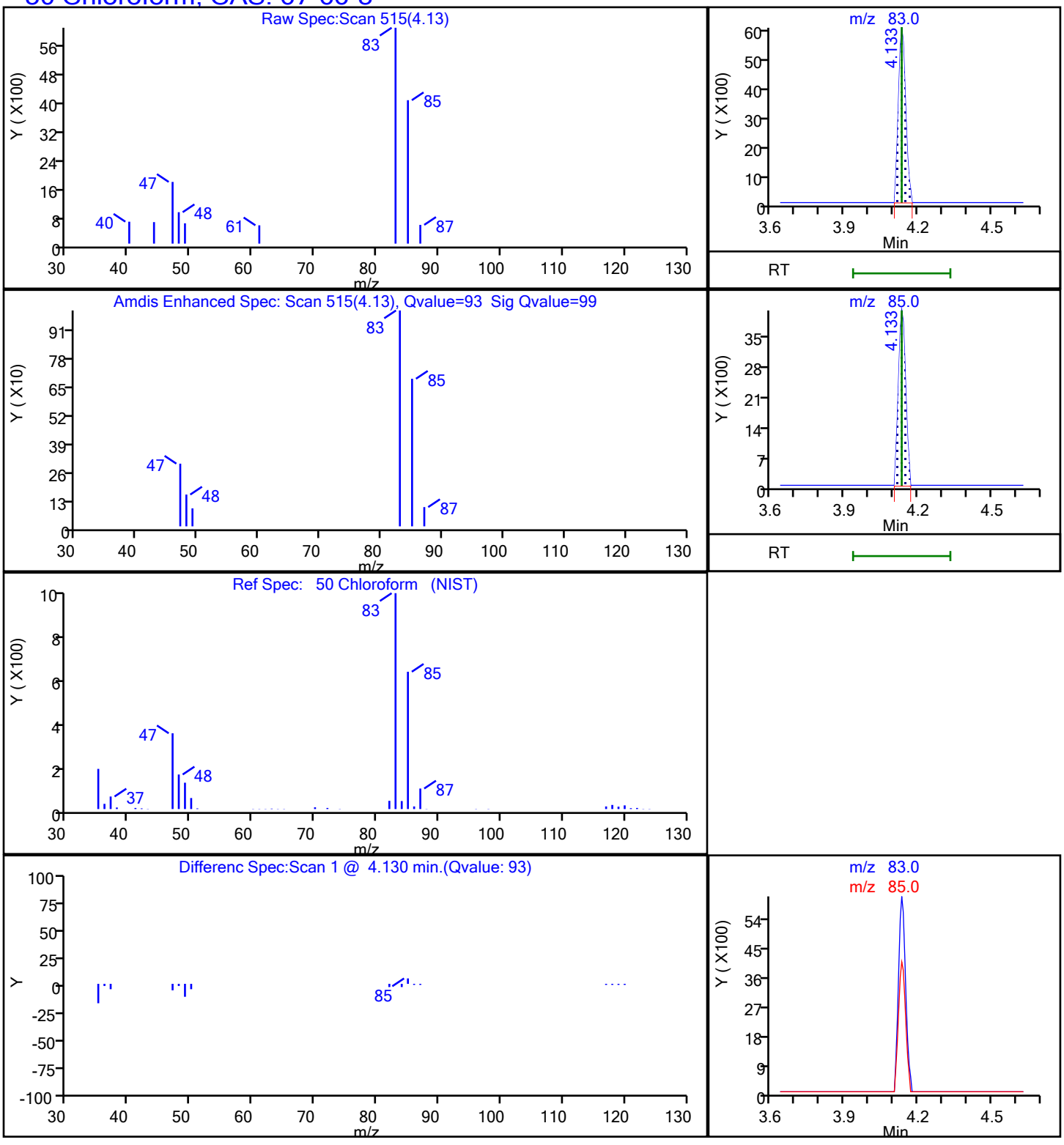
Report Date: 30-Oct-2024 10:42:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d

Injection Date:	29-Oct-2024 21:33:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-32	Lab Sample ID:	480-224872-32		
Client ID:	W-16-102424				
Operator ID:	AK	ALS Bottle#:	23	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



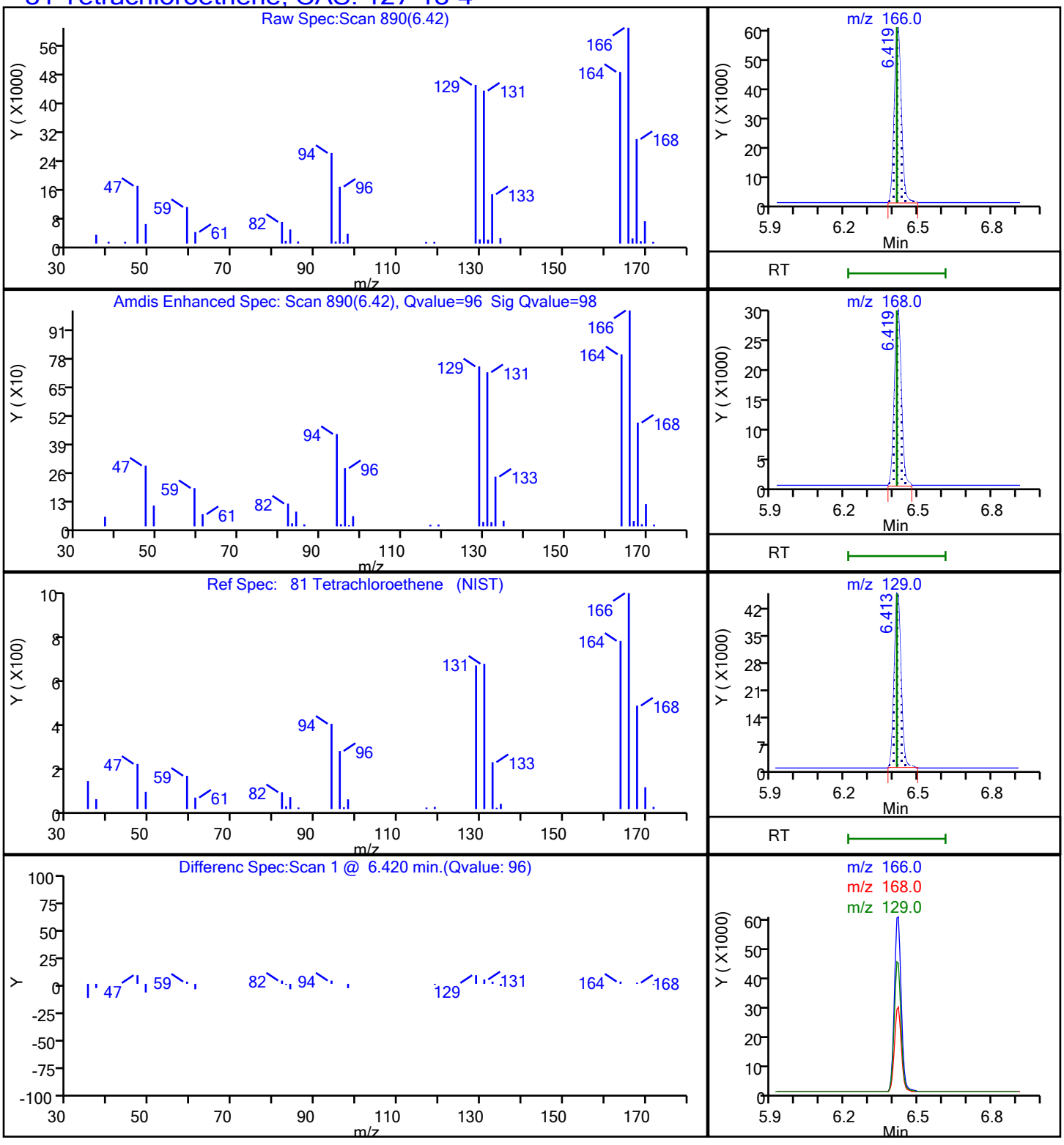
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d

Injection Date:	29-Oct-2024 21:33:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-32	Lab Sample ID:	480-224872-32		
Client ID:	W-16-102424				
Operator ID:	AK	ALS Bottle#:	23	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



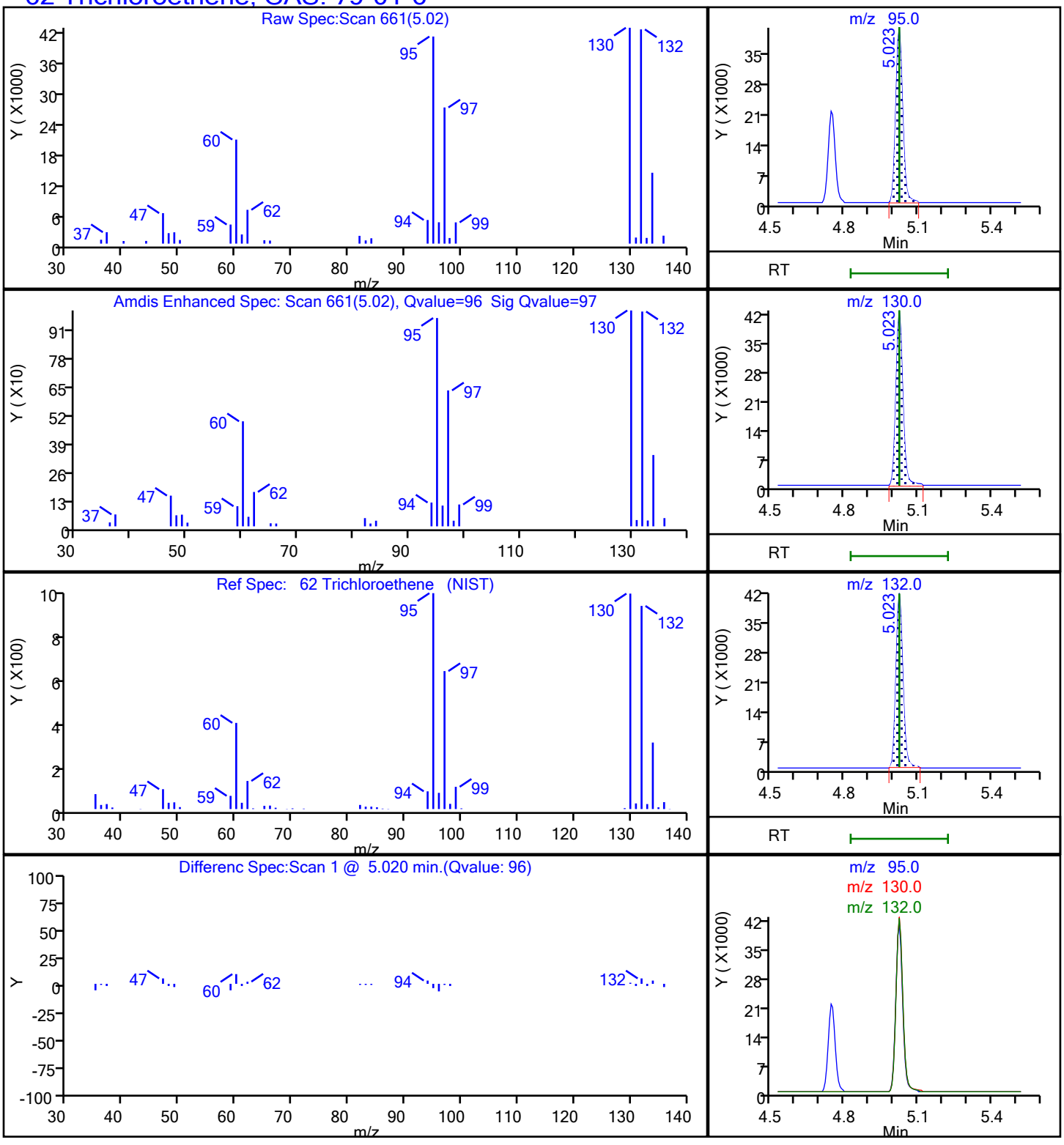
Report Date: 30-Oct-2024 10:42:28 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d

Injection Date:	29-Oct-2024 21:33:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-32	Lab Sample ID:	480-224872-32		
Client ID:	W-16-102424				
Operator ID:	AK	ALS Bottle#:	23	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



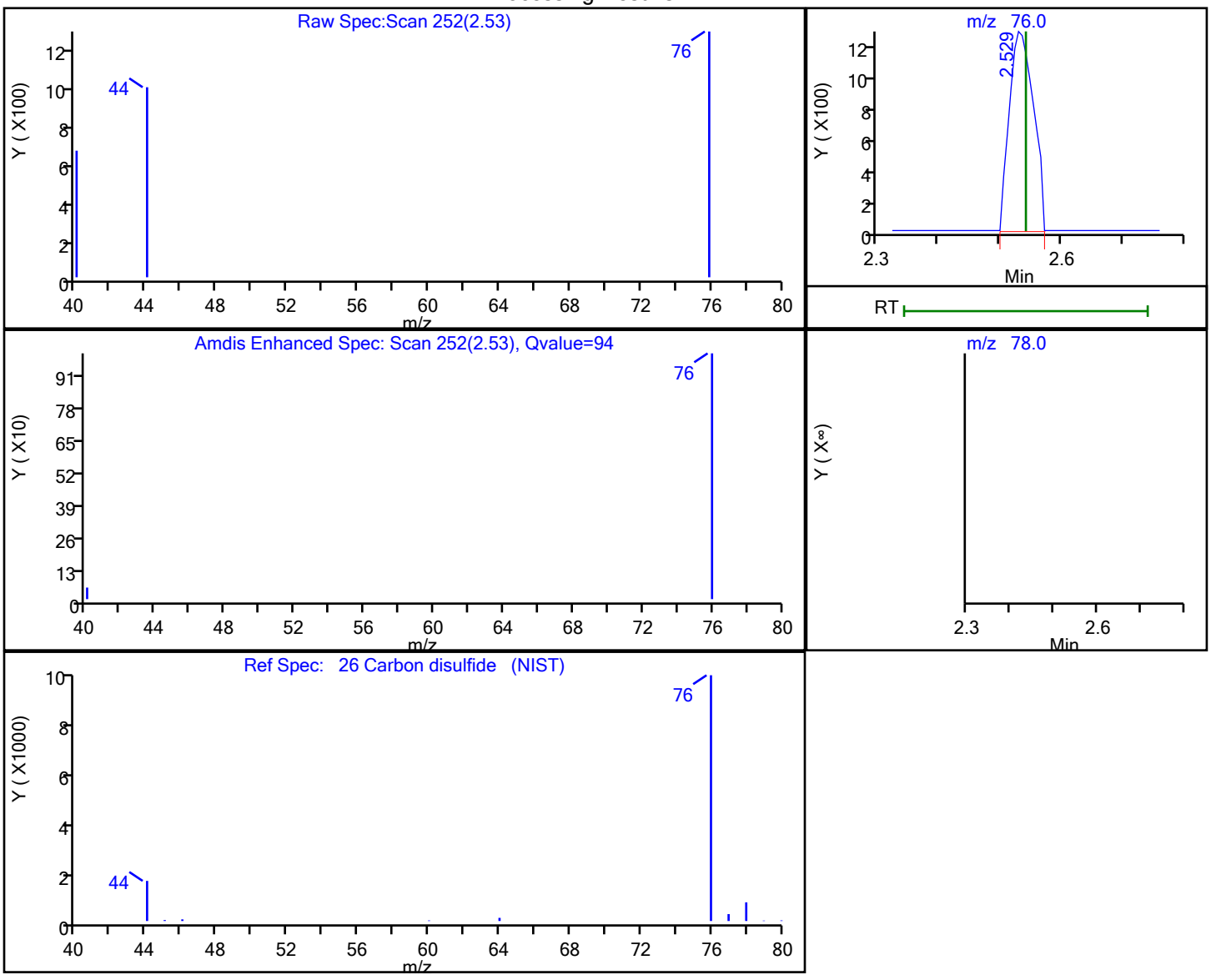
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8427.d				
Injection Date:	29-Oct-2024 21:33:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-32	Lab Sample ID:	480-224872-32		
Client ID:	W-16-102424				
Operator ID:	AK	ALS Bottle#:	23	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	3504	0.250499
2.54	78.00	0	

Reviewer: R3QB, 30-Oct-2024 10:42:15 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-66-102424 | Lab Sample ID: 480-224872-33

Matrix: Water | Lab File ID: D8386.d

Analysis Method: 8260C | Date Collected: 10/24/2024 11:37

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 06:00

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	25		1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	12		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	24		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	11		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d
Lims ID: 480-224872-A-33
Client ID: W-66-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:00:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-33
Misc. Info.: 480-0120866-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:30 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	95965	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	201586	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	236565	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.001	93	175285	28.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	98602	28.2	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	490483	25.2	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.127	4.126	0.000	95	111634	12.2	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	163756	24.6	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95	5.017	5.016	0.001	95	51784	10.6	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.412	0.000	96	126429	23.6	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

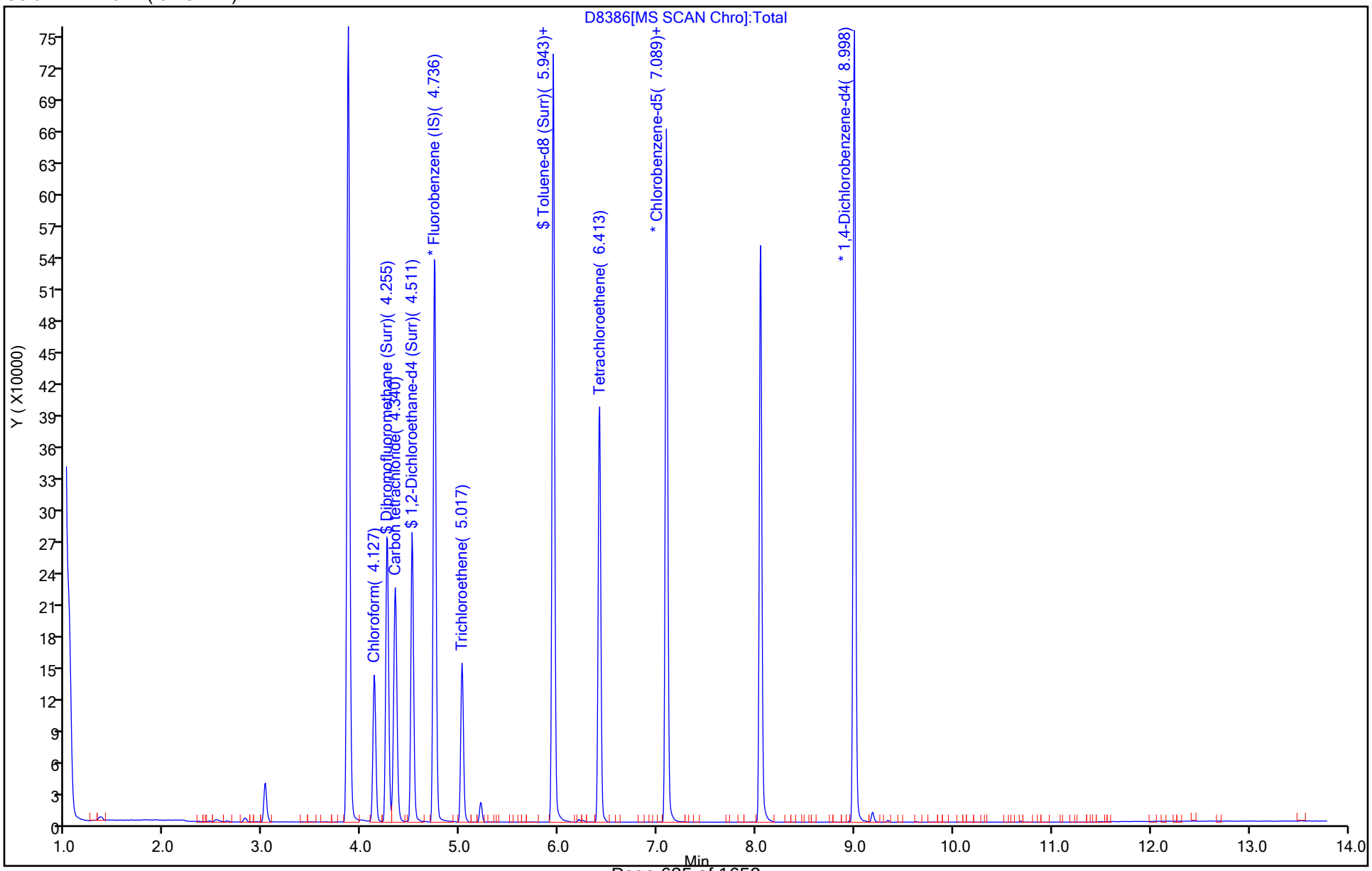
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d

Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33	Worklist Smp#:	18
Client ID:	W-66-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	51
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d
Lims ID: 480-224872-A-33
Client ID: W-66-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:00:30 ALS Bottle#: 51 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-33
Misc. Info.: 480-0120866-018
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:30 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.4	113.64
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.2	112.72
$ 5 Toluene-d8 (Surr)	25.0	25.2	100.85

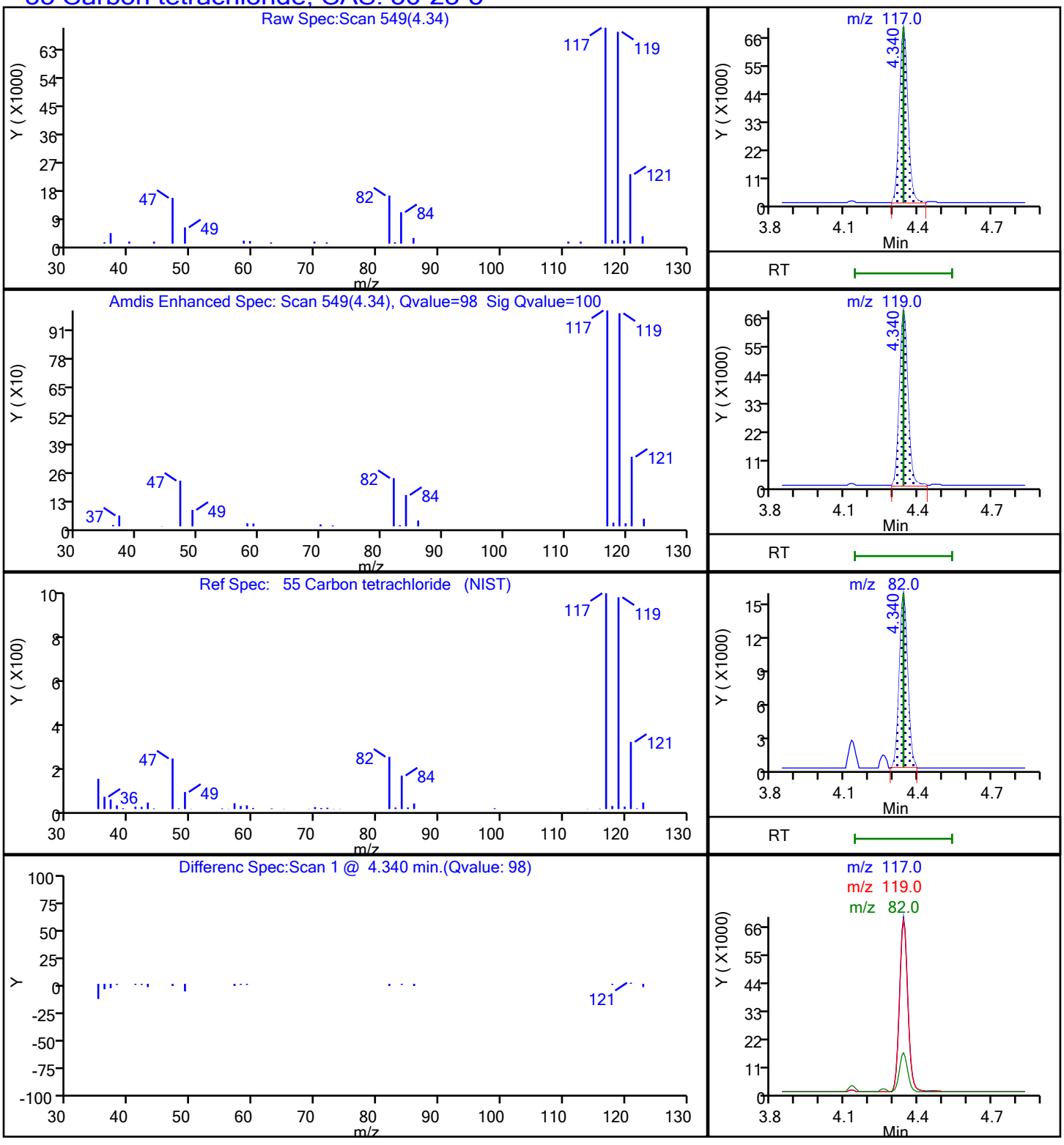
Report Date: 29-Oct-2024 14:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d

Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33		
Client ID:	W-66-102424				
Operator ID:	AK	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



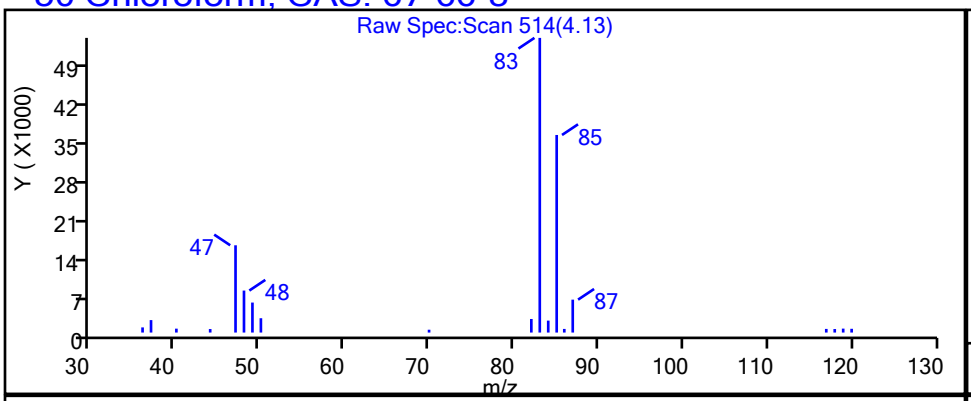
Report Date: 29-Oct-2024 14:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

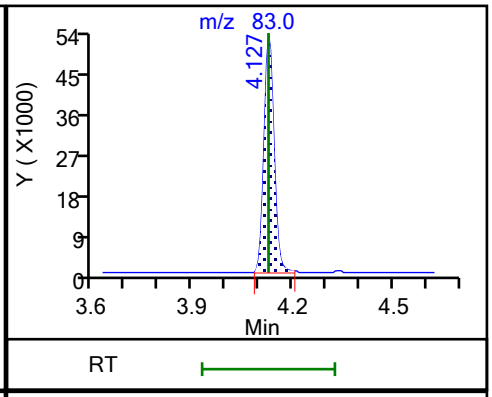
Eurofins Buffalo

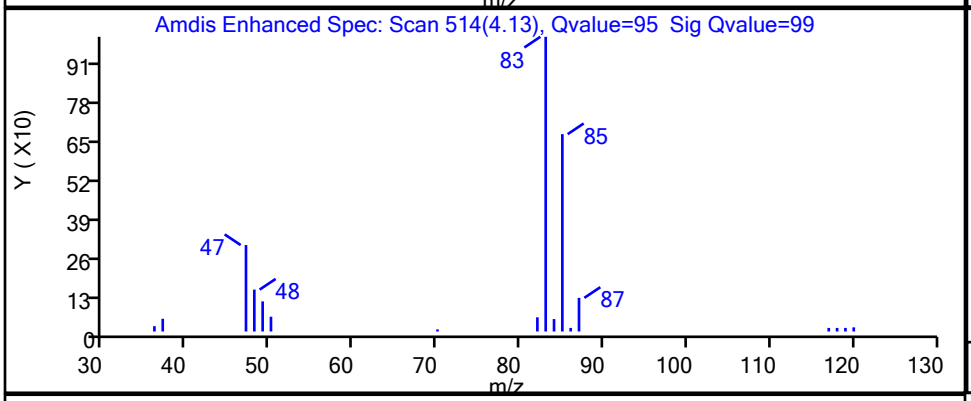
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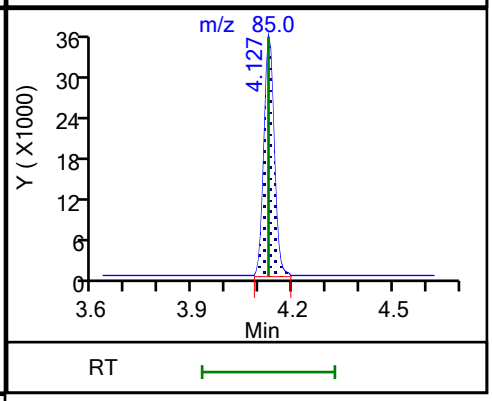
Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33		
Client ID:	W-66-102424				
Operator ID:	AK	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

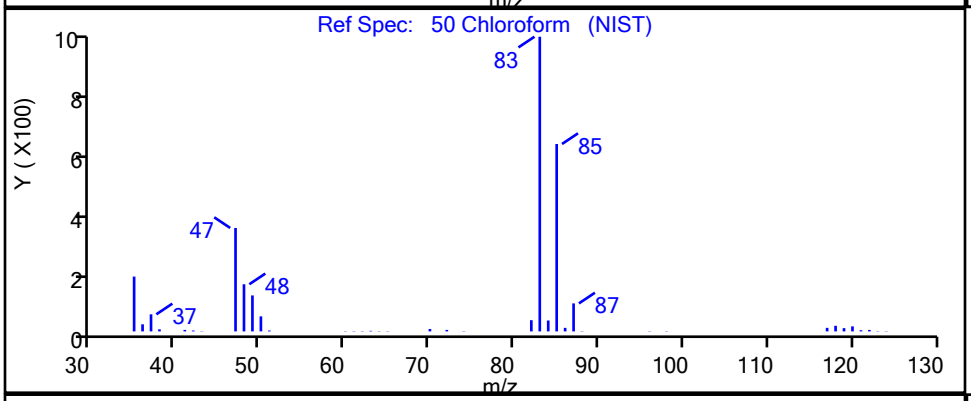
50 Chloroform, CAS: 67-66-3

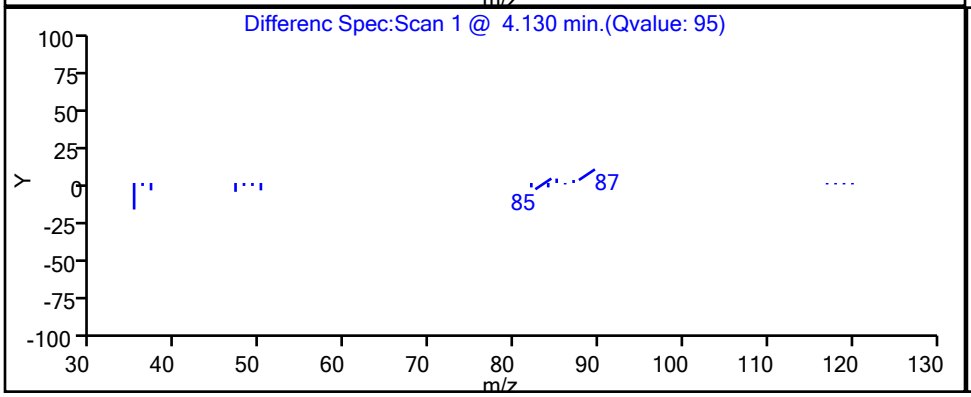


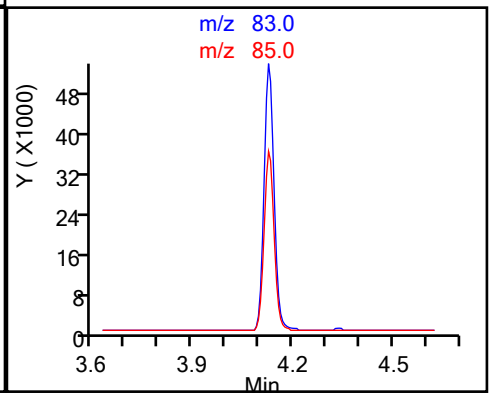












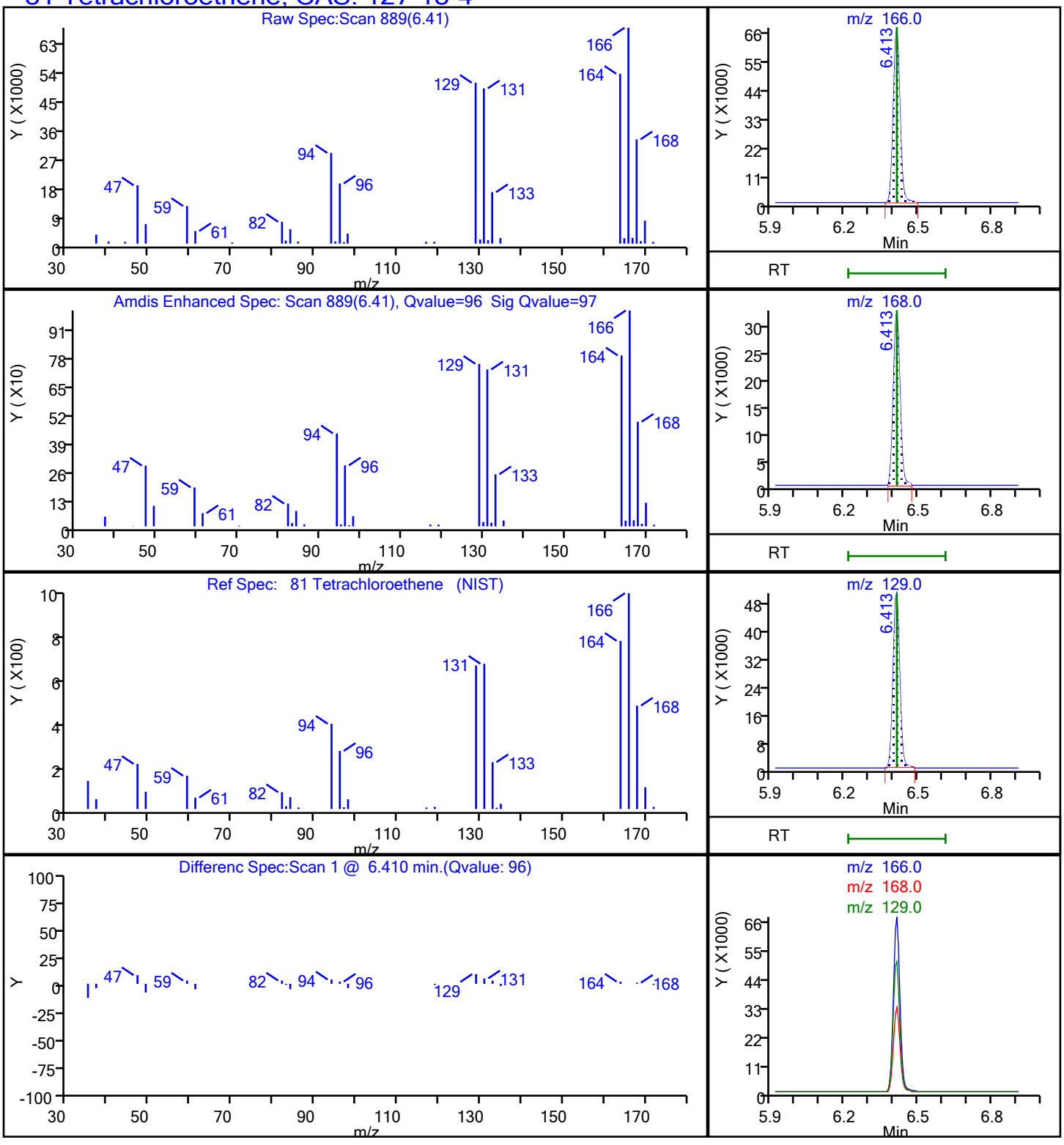
Report Date: 29-Oct-2024 14:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d

Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33		
Client ID:	W-66-102424				
Operator ID:	AK	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



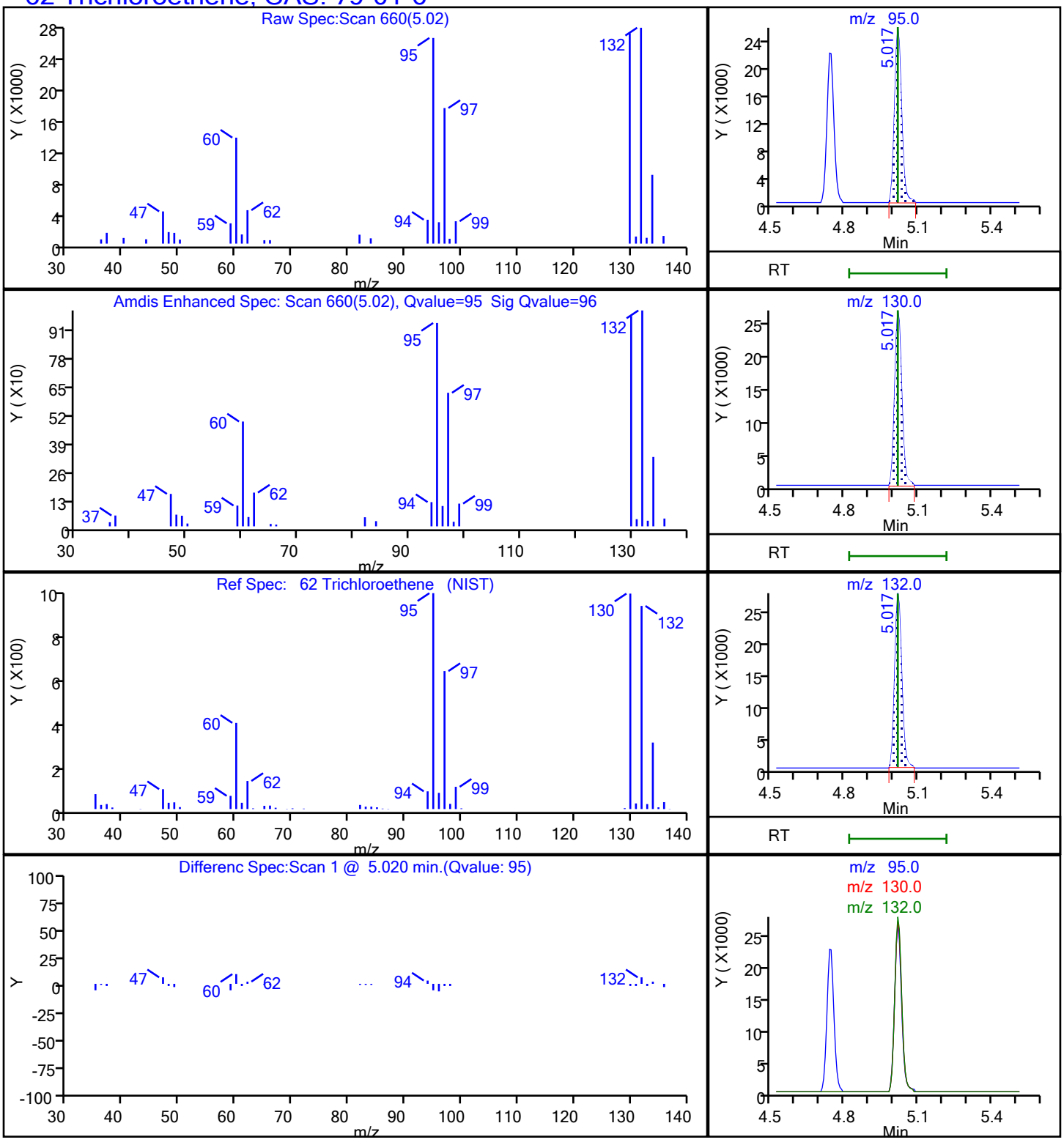
Report Date: 29-Oct-2024 14:09:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d

Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33		
Client ID:	W-66-102424				
Operator ID:	AK	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



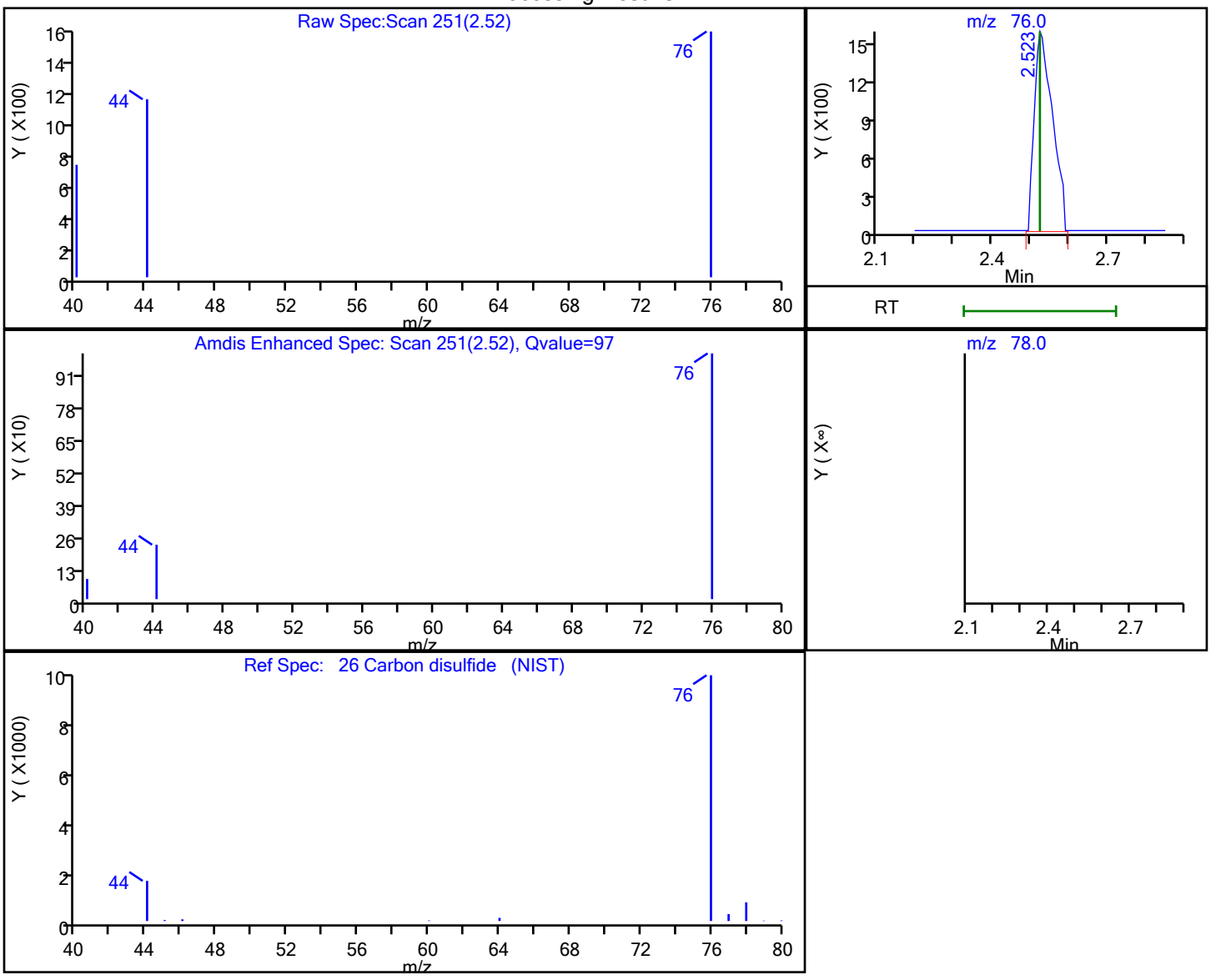
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8386.d				
Injection Date:	29-Oct-2024 06:00:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-33	Lab Sample ID:	480-224872-33		
Client ID:	W-66-102424				
Operator ID:	AK	ALS Bottle#:	51	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	5279	0.366185
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:09:25 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-66L-102424 | Lab Sample ID: 480-224872-34

Matrix: Water | Lab File ID: D8387.d

Analysis Method: 8260C | Date Collected: 10/24/2024 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 06:22

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8387.d
Lims ID: 480-224872-A-34
Client ID: W-66L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:22:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-34
Misc. Info.: 480-0120866-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:42 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	93383	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	192832	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	228522	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.254	0.006	93	173590	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	96963	28.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	464733	25.0	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

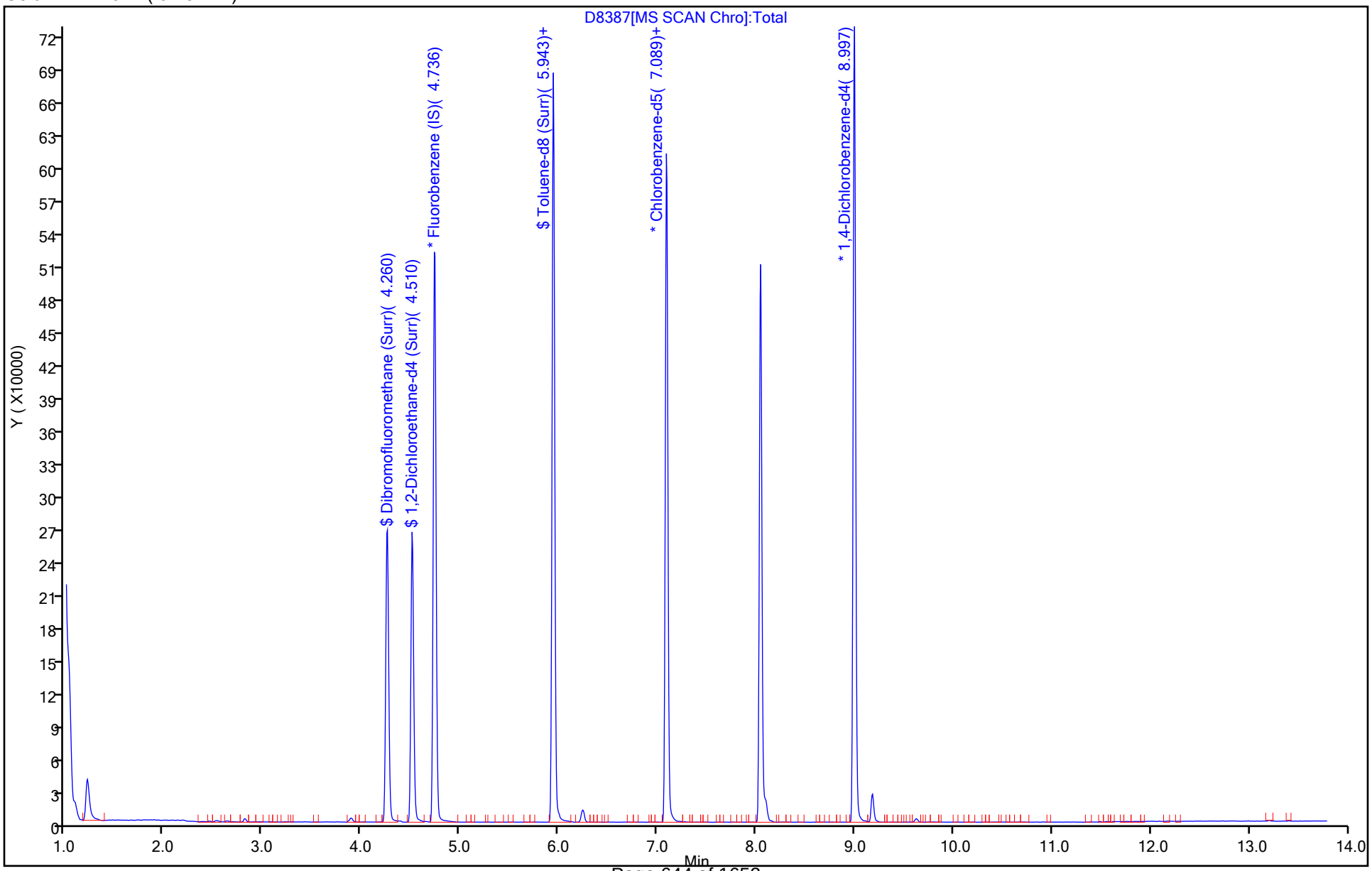
Report Date: 29-Oct-2024 14:09:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8387.d

Injection Date:	29-Oct-2024 06:22:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-34	Lab Sample ID:	480-224872-34	Worklist Smp#:	19
Client ID:	W-66L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	52
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8387.d
Lims ID: 480-224872-A-34
Client ID: W-66L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:22:30 ALS Bottle#: 52 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-34
Misc. Info.: 480-0120866-019
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:42 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.65
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	113.91
$ 5 Toluene-d8 (Surr)	25.0	25.0	99.89

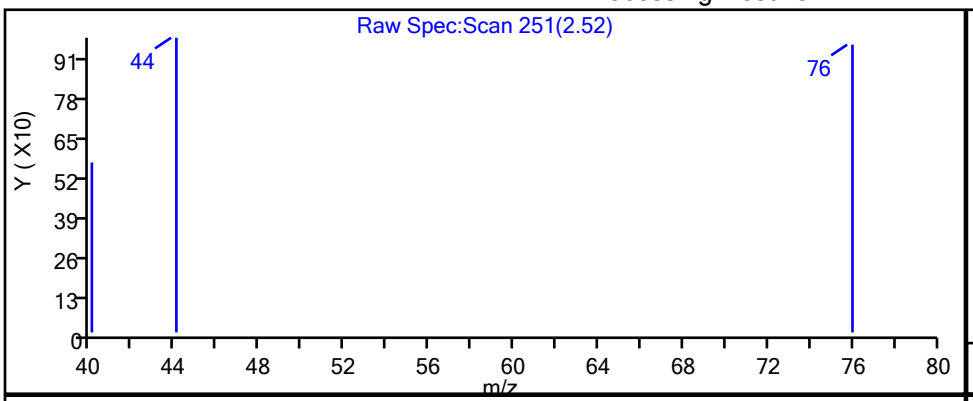
User Disabled Compound Report

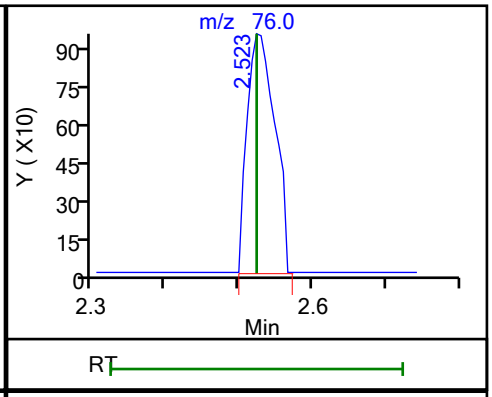
Eurofins Buffalo

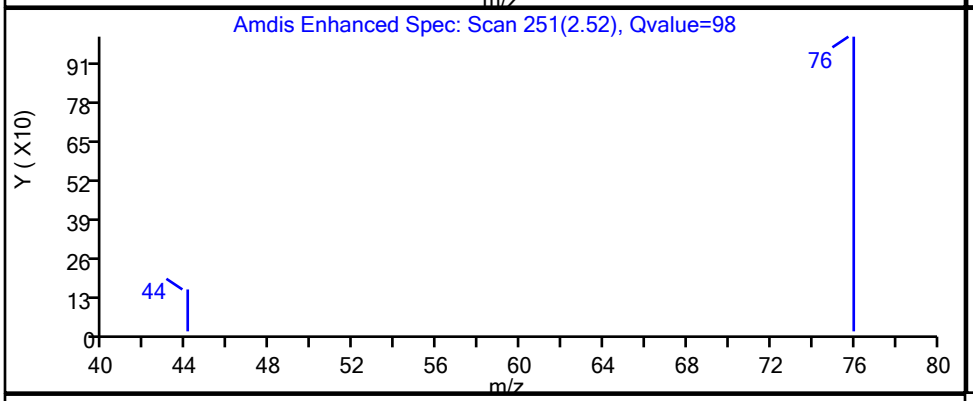
Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8387.d				
Injection Date:	29-Oct-2024 06:22:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-34	Lab Sample ID:	480-224872-34		
Client ID:	W-66L-102424				
Operator ID:	AK	ALS Bottle#:	52	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

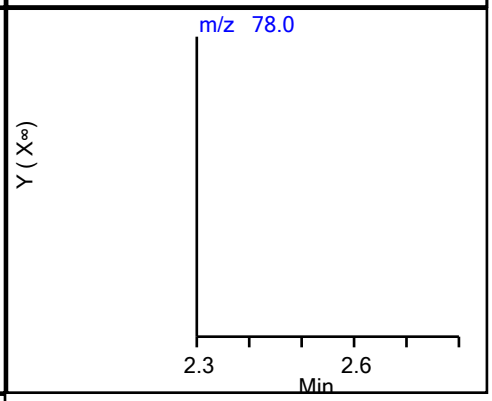
26 Carbon disulfide, CAS: 75-15-0

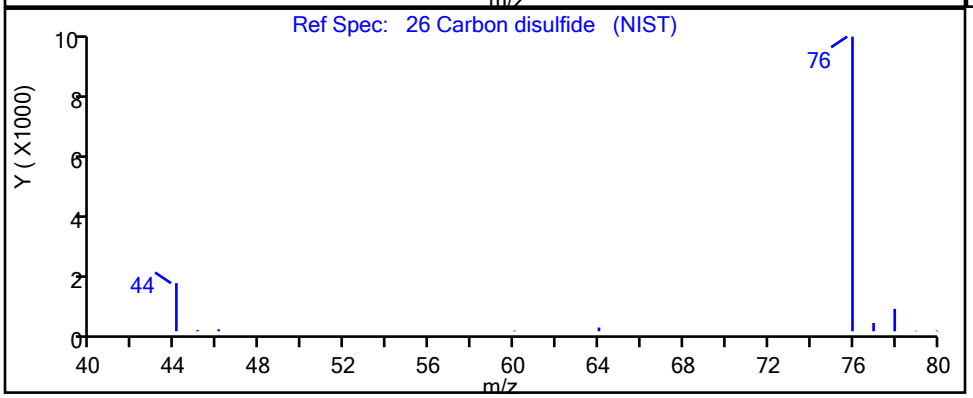
Processing Results











RT	Mass	Response	Amount
2.52	76.00	2511	0.178995
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:09:37 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-20-102424 | Lab Sample ID: 480-224872-35

Matrix: Water | Lab File ID: D8388.d

Analysis Method: 8260C | Date Collected: 10/24/2024 13:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 06:45

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.88	J	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8388.d
Lims ID: 480-224872-A-35
Client ID: LR-20-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:45:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-35
Misc. Info.: 480-0120866-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:42 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	98721	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	212678	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	235080	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	92	177296	27.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	99747	27.7	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	497420	24.2	
26 Carbon disulfide	76	2.523	2.523	0.000	98	13102	0.8835	
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	7
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

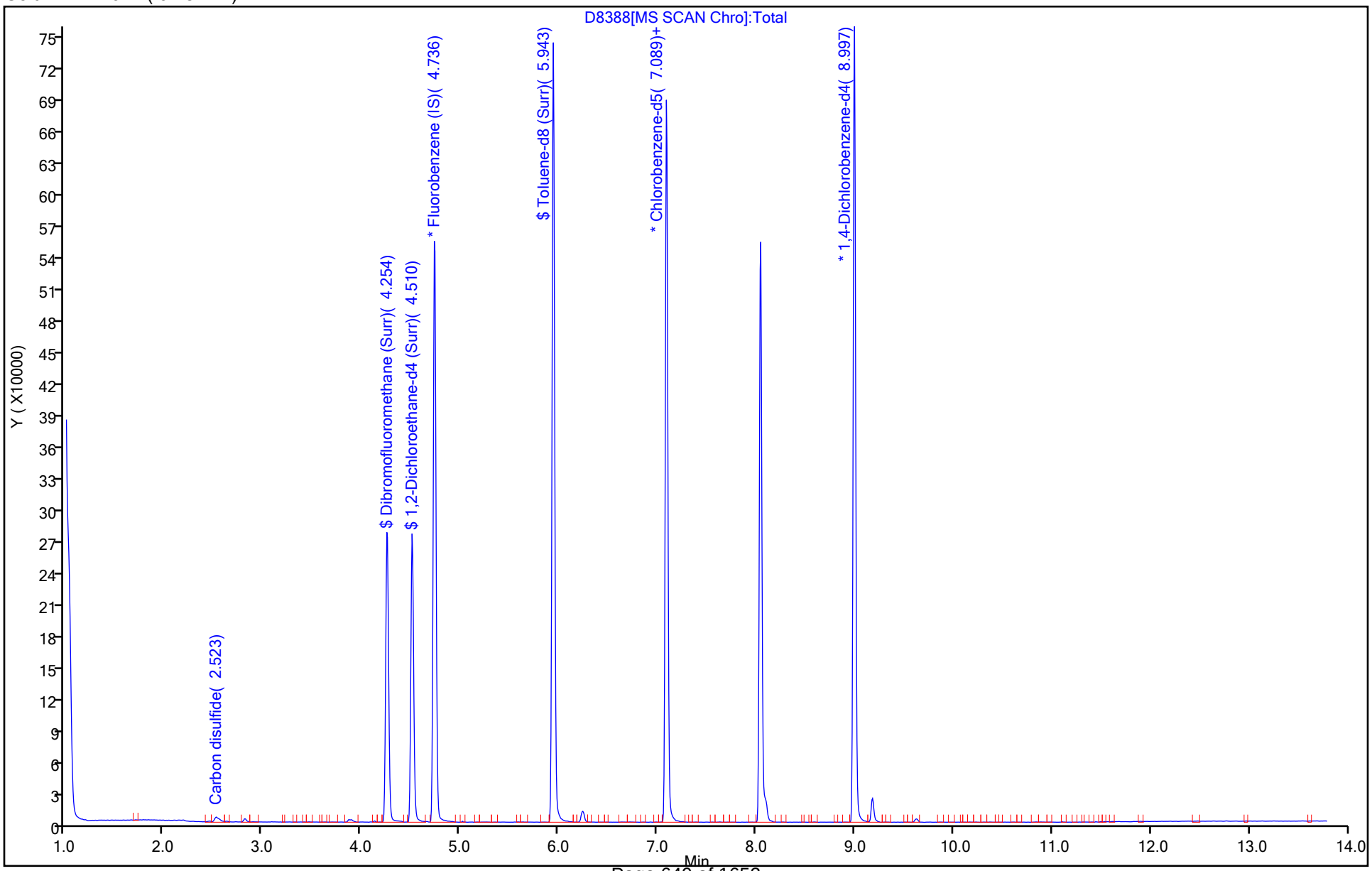
Report Date: 29-Oct-2024 14:09:52 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8388.d

Injection Date:	29-Oct-2024 06:45:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-35	Lab Sample ID:	480-224872-35	Worklist Smp#:	20
Client ID:	LR-20-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	53
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8388.d
Lims ID: 480-224872-A-35
Client ID: LR-20-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 06:45:30 ALS Bottle#: 53 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-35
Misc. Info.: 480-0120866-020
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:09:42 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:09:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.9	111.73
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.7	110.84
$ 5 Toluene-d8 (Surr)	25.0	24.2	96.94

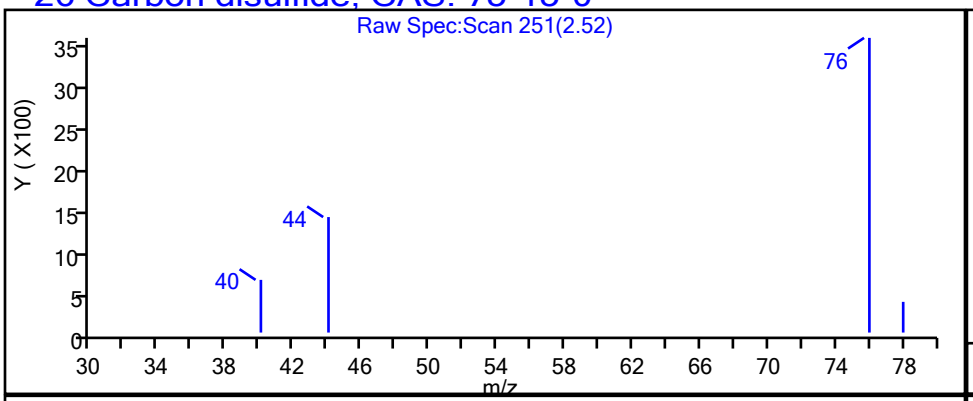
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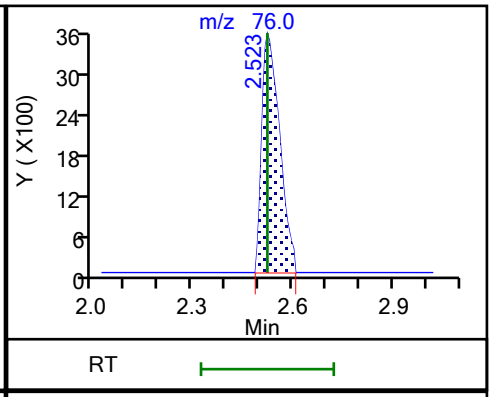
Eurofins Buffalo

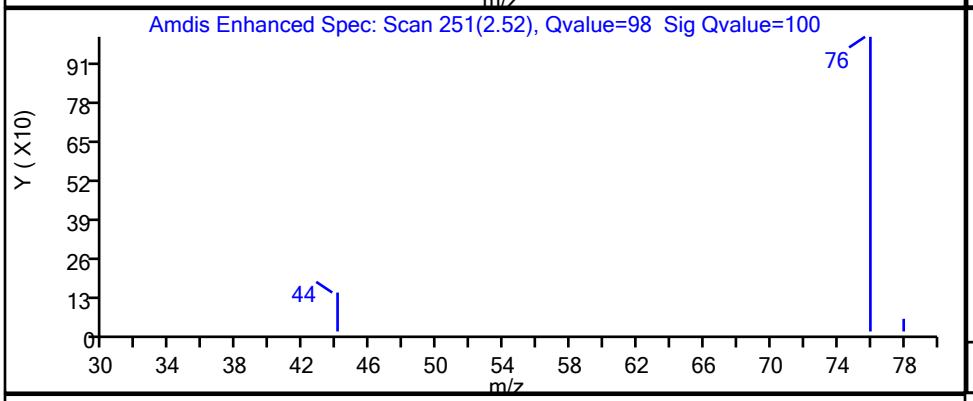
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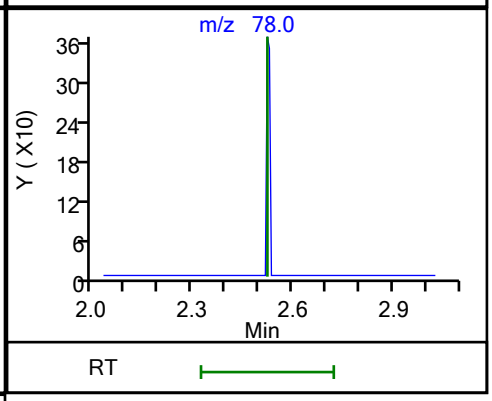
Injection Date:	29-Oct-2024 06:45:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-35	Lab Sample ID:	480-224872-35		
Client ID:	LR-20-102424				
Operator ID:	AK	ALS Bottle#:	53	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

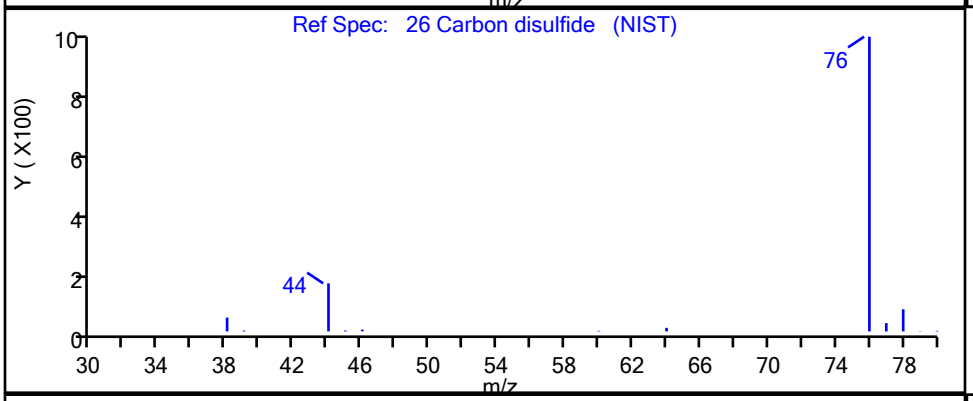
26 Carbon disulfide, CAS: 75-15-0

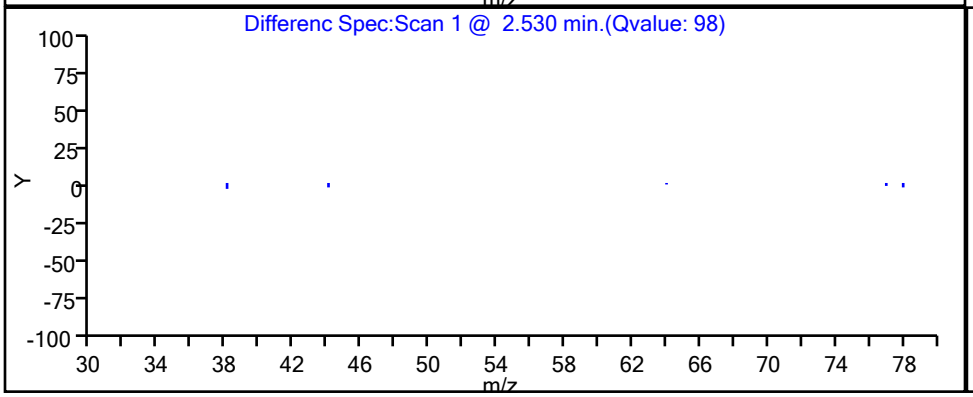


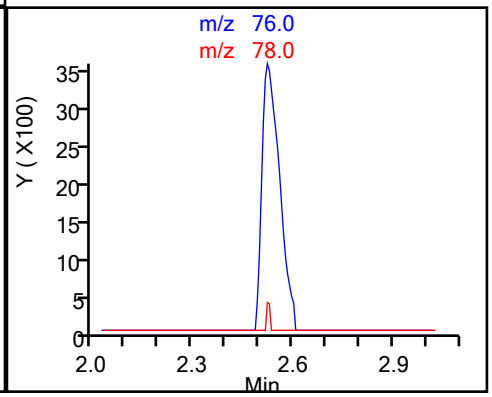












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-20-102424 | Lab Sample ID: 480-224872-36

Matrix: Water | Lab File ID: D8389.d

Analysis Method: 8260C | Date Collected: 10/24/2024 13:35

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 07:07

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:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.82	U	2.0	0.82
75-15-0	Carbon disulfide	0.38	U	2.0	0.38
56-23-5	Carbon tetrachloride	0.54	U	2.0	0.54
108-90-7	Chlorobenzene	1.5	U	2.0	1.5
67-66-3	Chloroform	0.68	U	2.0	0.68
75-09-2	Methylene Chloride	0.88	U	2.0	0.88
127-18-4	Tetrachloroethene	0.72	U	2.0	0.72
108-88-3	Toluene	1.0	U	2.0	1.0
79-01-6	Trichloroethene	0.92	U	2.0	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8389.d
Lims ID: 480-224872-A-36
Client ID: W-20-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:07:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-36
Misc. Info.: 480-0120866-021
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:22 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	96342	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	86	199799	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	234352	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	172937	27.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.000	98	97761	27.8	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	483743	25.1	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

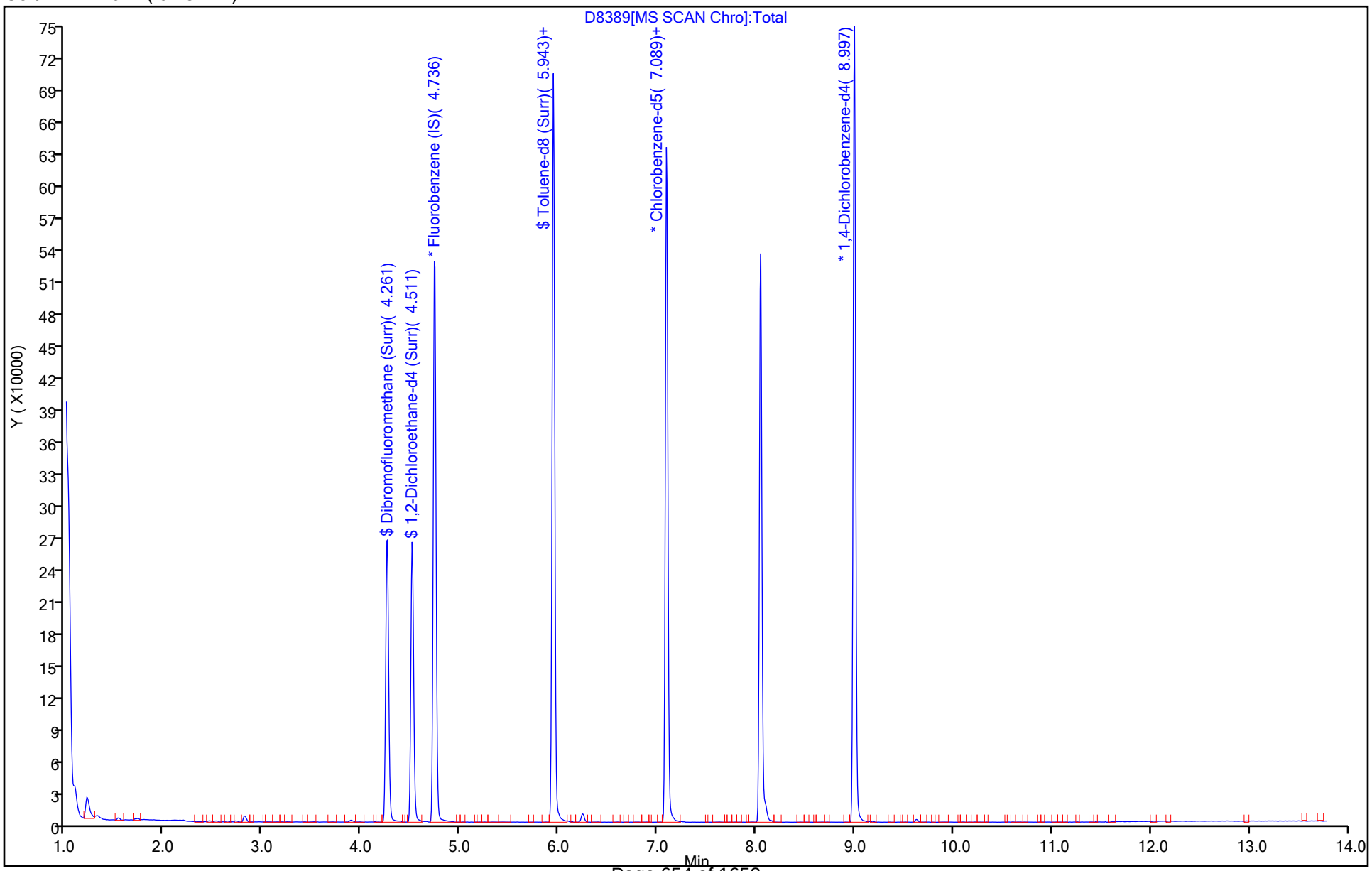
Report Date: 29-Oct-2024 14:10:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8389.d

Injection Date:	29-Oct-2024 07:07:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-36	Lab Sample ID:	480-224872-36	Worklist Smp#:	21
Client ID:	W-20-102424				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	54
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8389.d
Lims ID: 480-224872-A-36
Client ID: W-20-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:07:30 ALS Bottle#: 54 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-36
Misc. Info.: 480-0120866-021
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:22 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.9	111.68
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.32
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.36

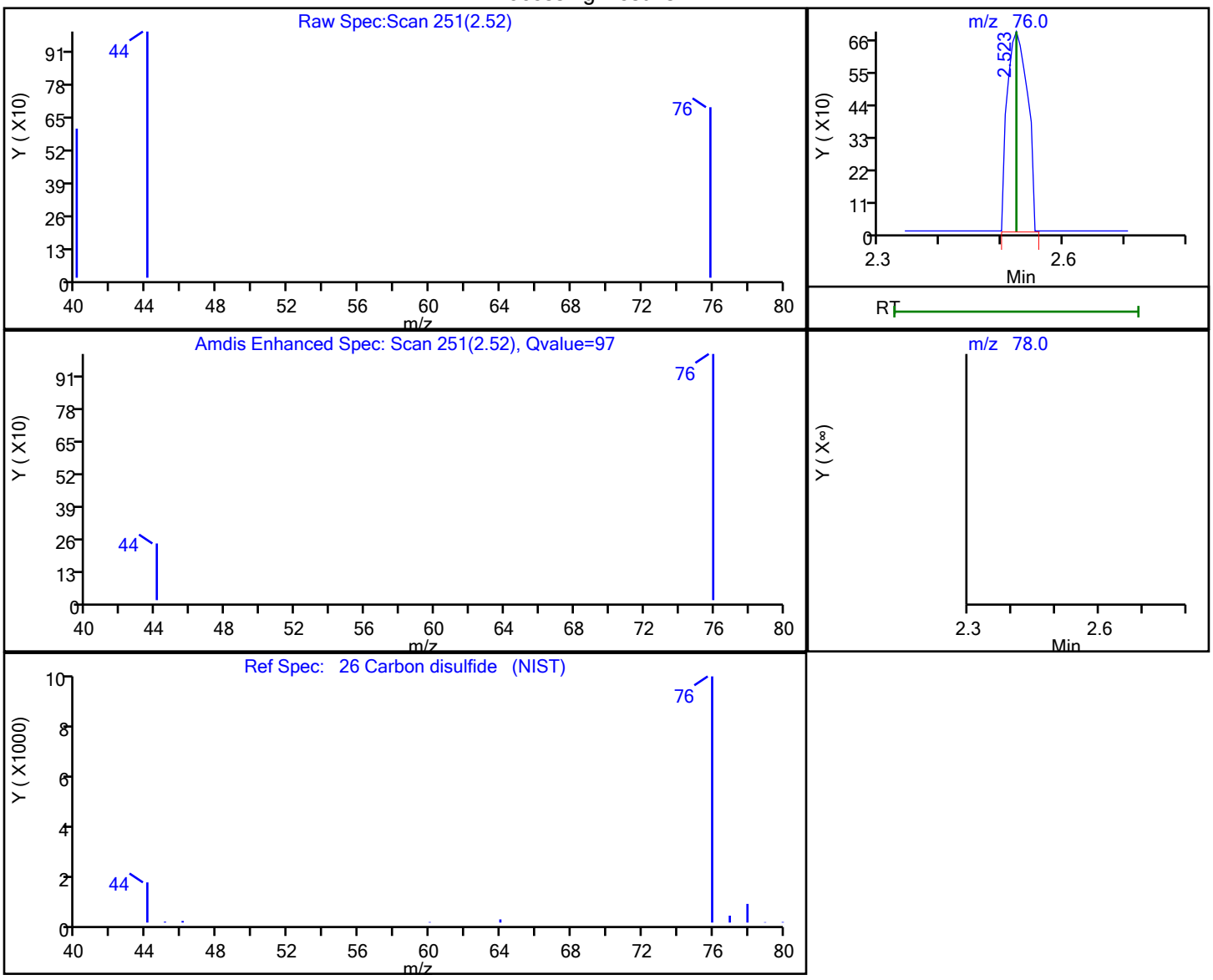
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8389.d				
Injection Date:	29-Oct-2024 07:07:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-36	Lab Sample ID:	480-224872-36		
Client ID:	W-20-102424				
Operator ID:	AK	ALS Bottle#:	54	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	1577	0.108963
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:09:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-49-102424 | Lab Sample ID: 480-224872-37

Matrix: Water | Lab File ID: D8390.d

Analysis Method: 8260C | Date Collected: 10/24/2024 13:46

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 07:29

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	1.1		1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8390.d
Lims ID: 480-224872-A-37
Client ID: LR-49-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:29:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-37
Misc. Info.: 480-0120866-022
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:36 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	96027	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	205865	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	235690	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	176311	28.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	98493	28.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	499133	25.1	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.126	4.126	0.000	90	3038	0.3307	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112	7.114	7.114	0.000	94	15189	1.14	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

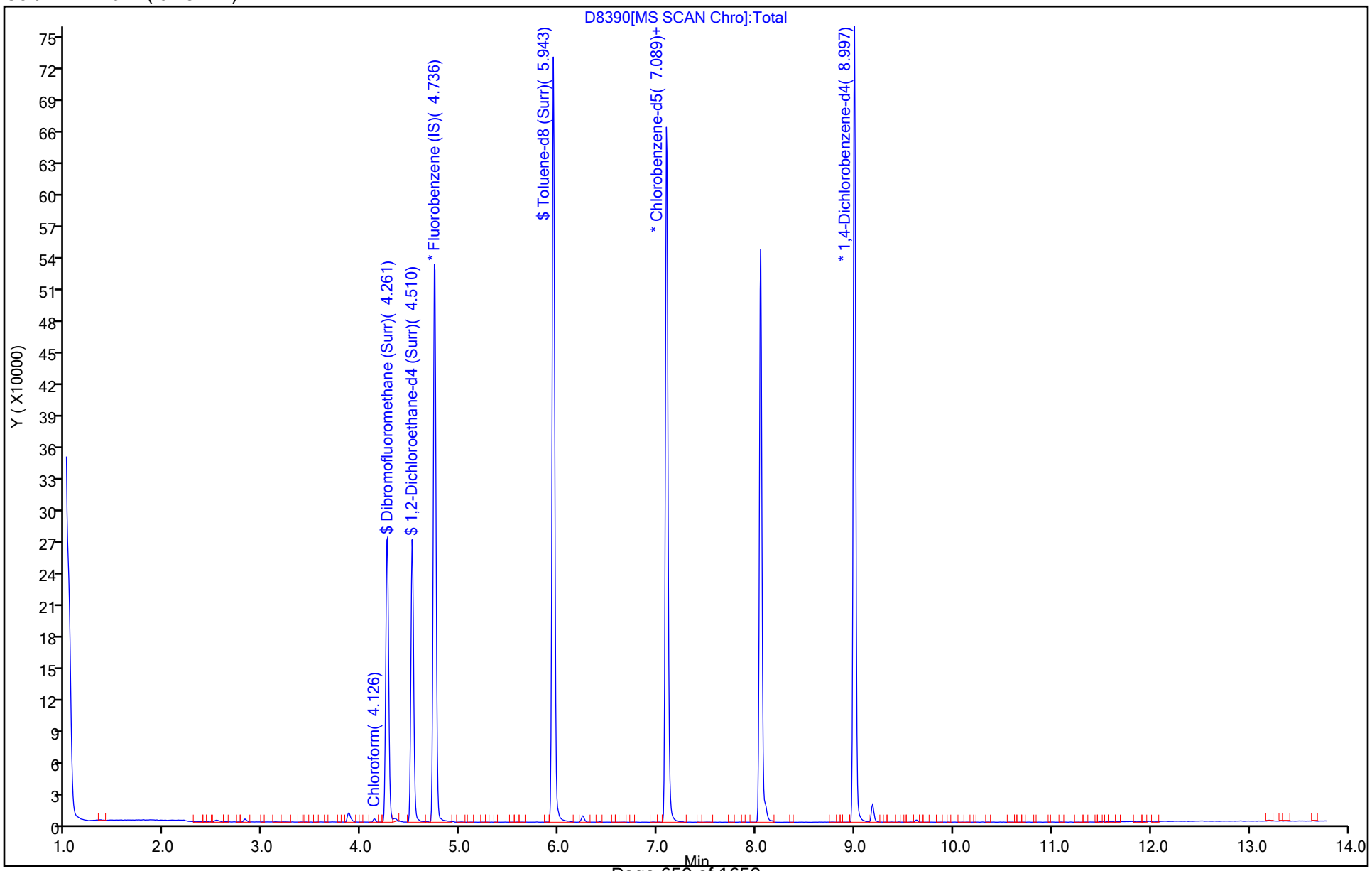
Report Date: 29-Oct-2024 14:10:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8390.d

Injection Date:	29-Oct-2024 07:29:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-37	Lab Sample ID:	480-224872-37	Worklist Smp#:	22
Client ID:	LR-49-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	55
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8390.d
Lims ID: 480-224872-A-37
Client ID: LR-49-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:29:30 ALS Bottle#: 55 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-37
Misc. Info.: 480-0120866-022
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:36 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.6	114.23
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.1	112.52
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.50

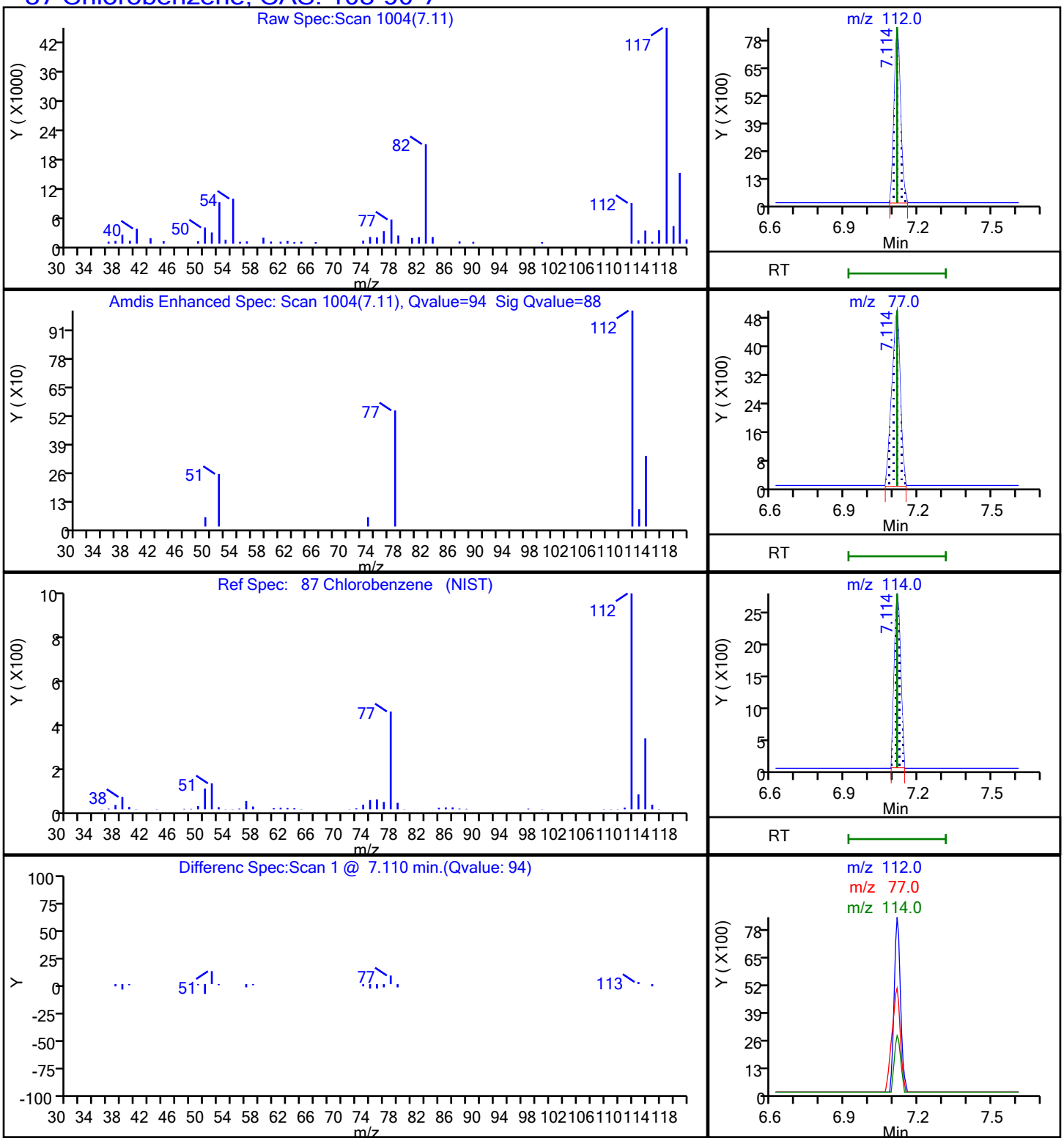
Report Date: 29-Oct-2024 14:10:36 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8390.d

Injection Date:	29-Oct-2024 07:29:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-37	Lab Sample ID:	480-224872-37		
Client ID:	LR-49-102424				
Operator ID:	AK	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



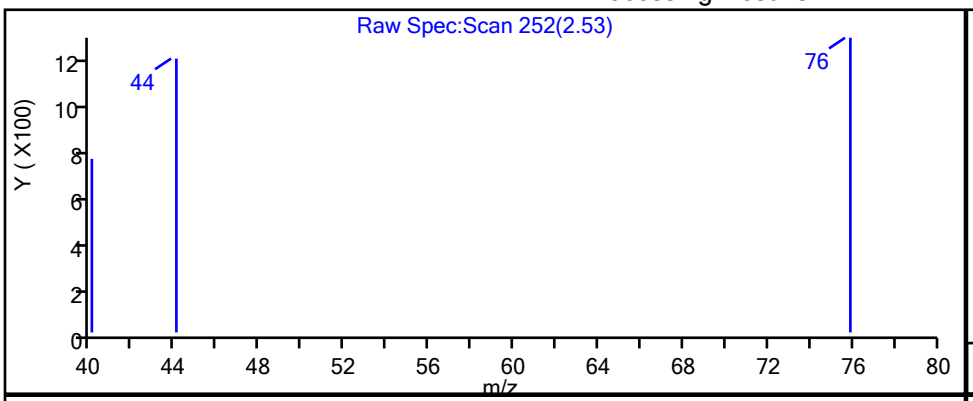
User Disabled Compound Report

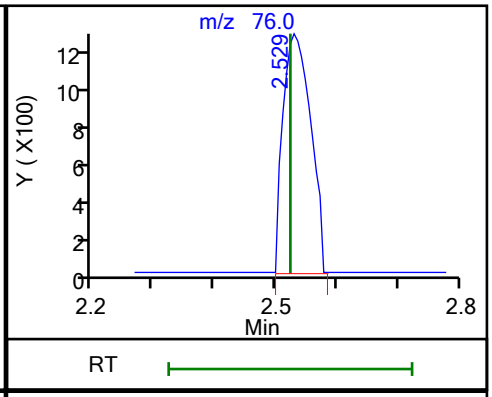
Eurofins Buffalo

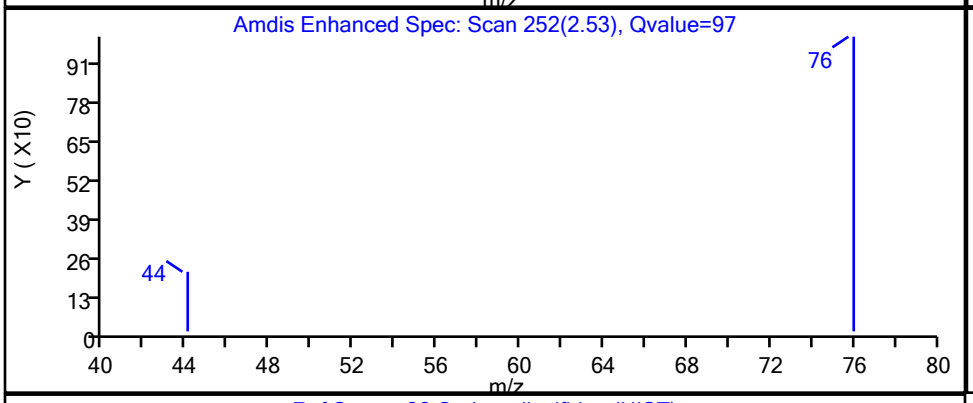
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Injection Date:	29-Oct-2024 07:29:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-37	Lab Sample ID:	480-224872-37		
Client ID:	LR-49-102424				
Operator ID:	AK	ALS Bottle#:	55	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

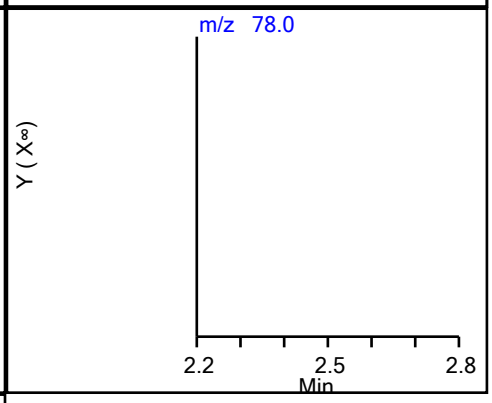
26 Carbon disulfide, CAS: 75-15-0

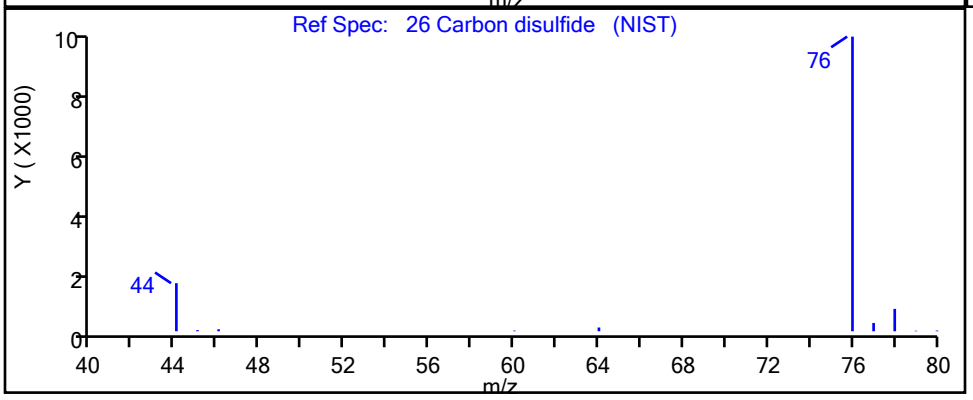
Processing Results











RT	Mass	Response	Amount
2.53	76.00	3783	0.262243
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:10:31 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-65-102424 | Lab Sample ID: 480-224872-38

Matrix: Water | Lab File ID: D8391.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 07:51

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.77	J	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.91	J	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d
Lims ID: 480-224872-A-38
Client ID: W-65-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:51:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-38
Misc. Info.: 480-0120866-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	93299	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	196579	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	232768	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.254	0.006	92	173347	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	96977	28.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	476979	25.1	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95	5.016	5.016	0.000	91	4347	0.9118	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.412	6.413	-0.001	90	4040	0.7721	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

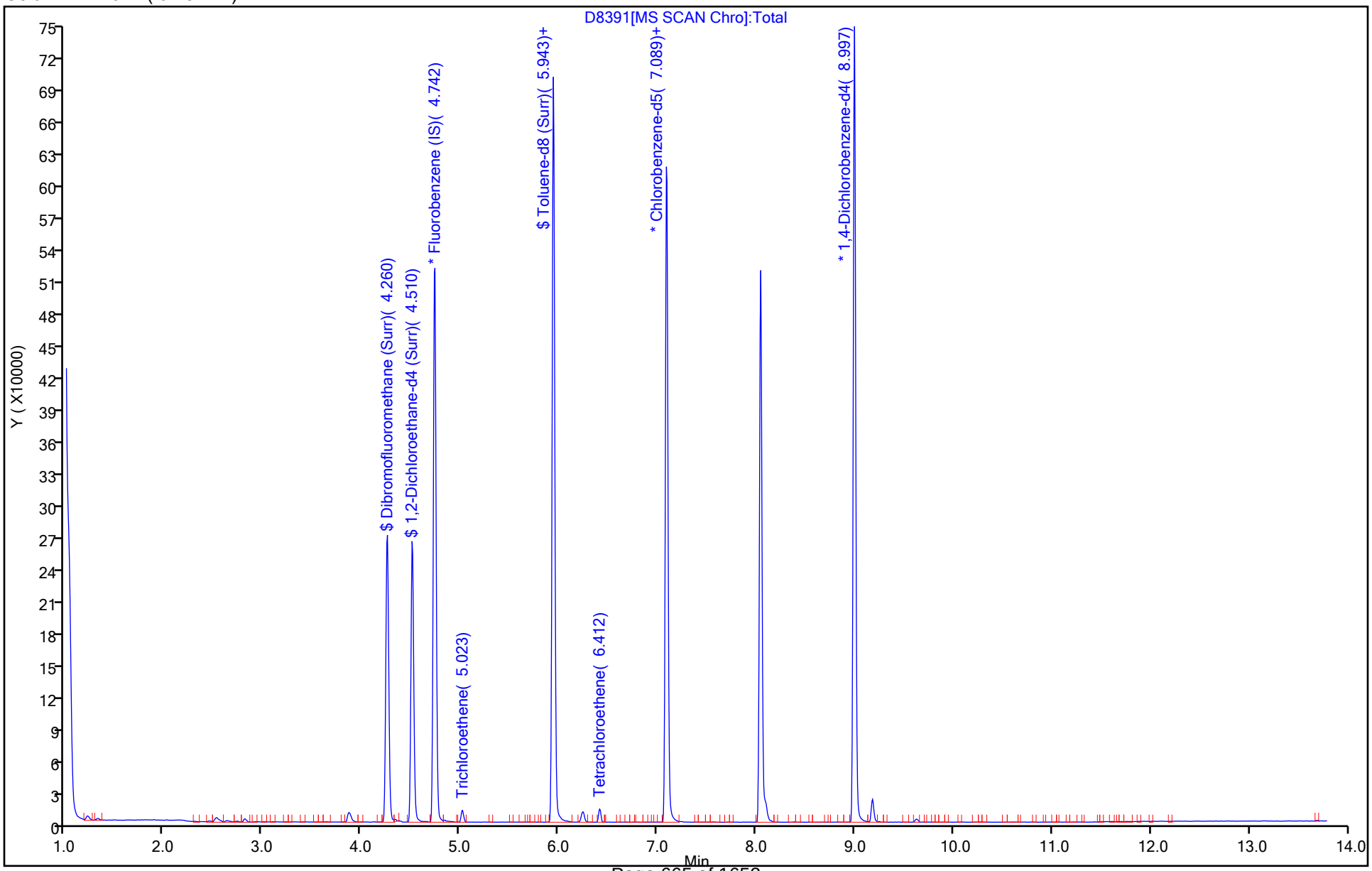
Report Date: 29-Oct-2024 14:10:50 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d

Injection Date:	29-Oct-2024 07:51:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-38	Lab Sample ID:	480-224872-38	Worklist Smp#:	23
Client ID:	W-65-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	56
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d
Lims ID: 480-224872-A-38
Client ID: W-65-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 07:51:30 ALS Bottle#: 56 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-38
Misc. Info.: 480-0120866-023
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:10:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.59
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.5	114.03
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.57

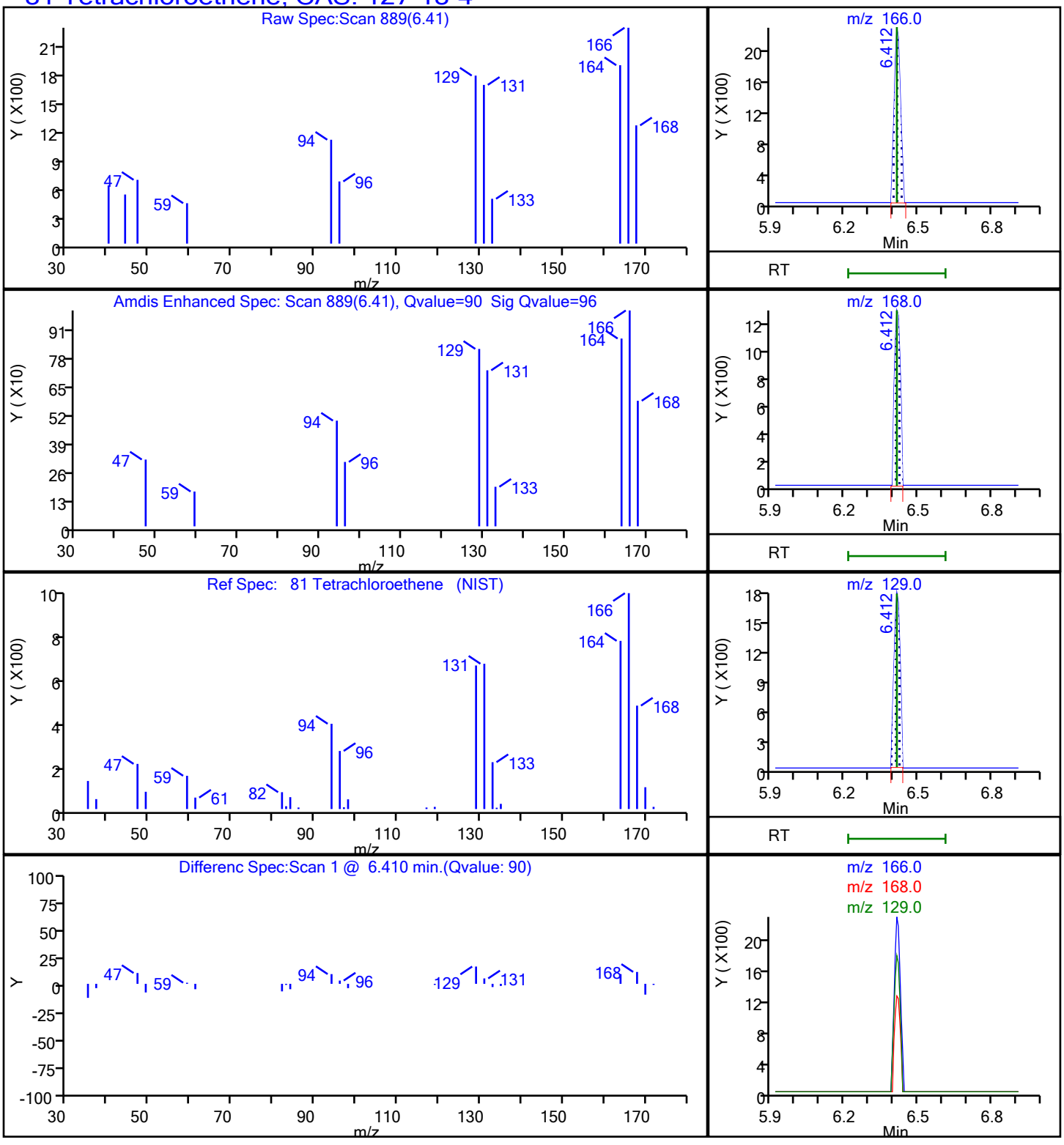
Report Date: 29-Oct-2024 14:10:50 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d

Injection Date:	29-Oct-2024 07:51:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-38	Lab Sample ID:	480-224872-38		
Client ID:	W-65-102424				
Operator ID:	AK	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



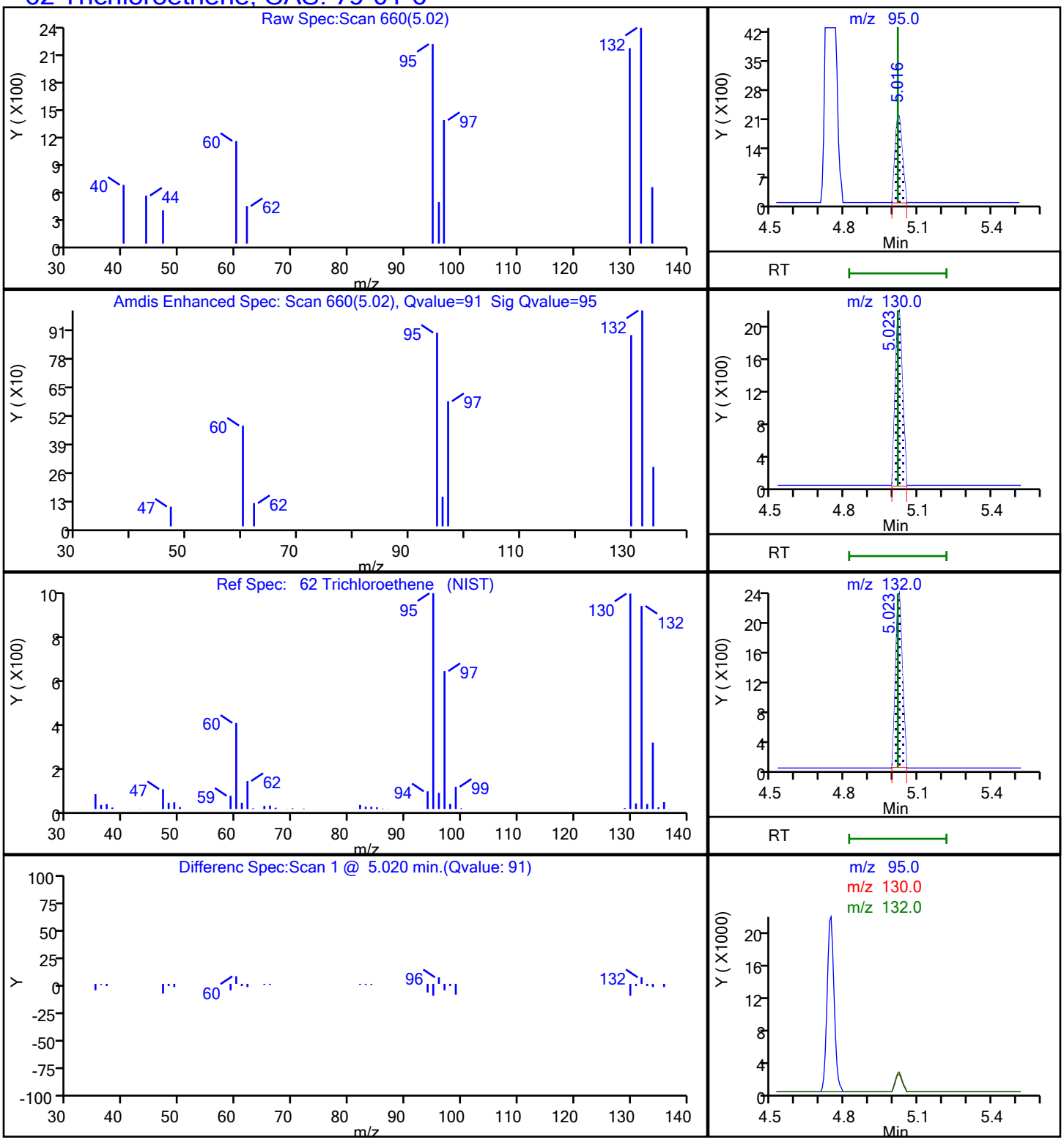
Report Date: 29-Oct-2024 14:10:50 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d

Injection Date:	29-Oct-2024 07:51:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-38	Lab Sample ID:	480-224872-38		
Client ID:	W-65-102424				
Operator ID:	AK	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



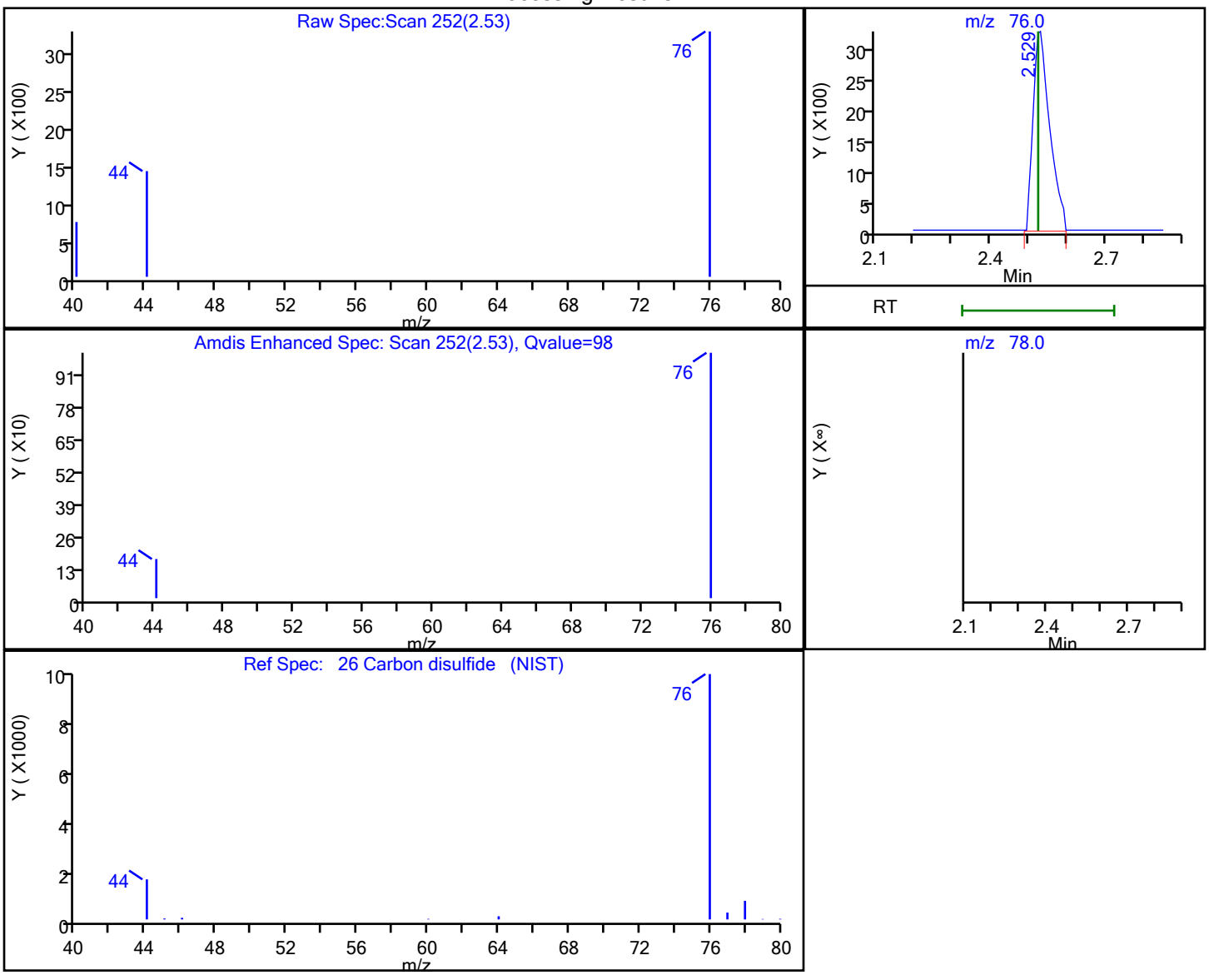
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8391.d				
Injection Date:	29-Oct-2024 07:51:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-38	Lab Sample ID:	480-224872-38		
Client ID:	W-65-102424				
Operator ID:	AK	ALS Bottle#:	56	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	9877	0.704709
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:10:42 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-23C-102424 | Lab Sample ID: 480-224872-39

Matrix: Water | Lab File ID: D8392.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:13

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 08:13

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	1.5		1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	1.6		1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.61	J	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8392.d
Lims ID: 480-224872-A-39
Client ID: W-23C-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:13:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-39
Misc. Info.: 480-0120866-024
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	96551	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	211515	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	234190	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.001	92	173728	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	98	97989	27.8	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	503648	24.7	
26 Carbon disulfide	76		2.523				ND	7
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.127	4.126	0.000	94	13932	1.51	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95	5.023	5.016	0.007	92	2987	0.6055	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.413	0.000	94	8957	1.59	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8392.d
Lims ID: 480-224872-A-39
Client ID: W-23C-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:13:30 ALS Bottle#: 57 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-39
Misc. Info.: 480-0120866-024
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:10:50 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	111.94
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.34
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.70

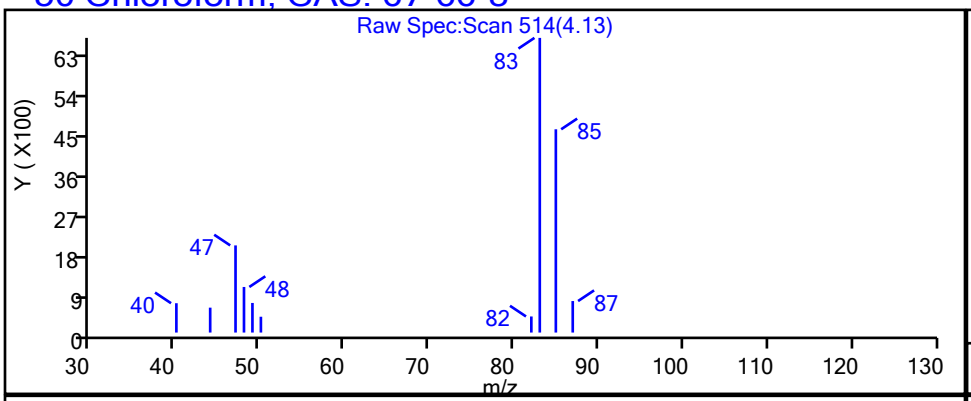
Report Date: 29-Oct-2024 14:11:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

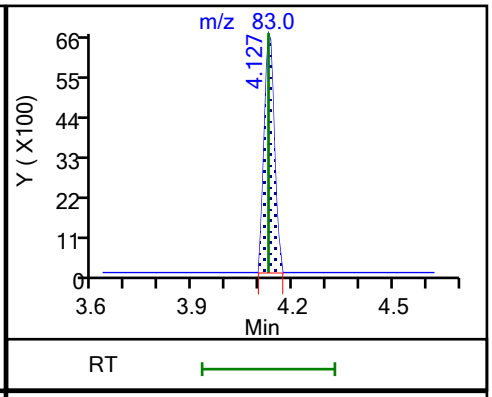
Eurofins Buffalo

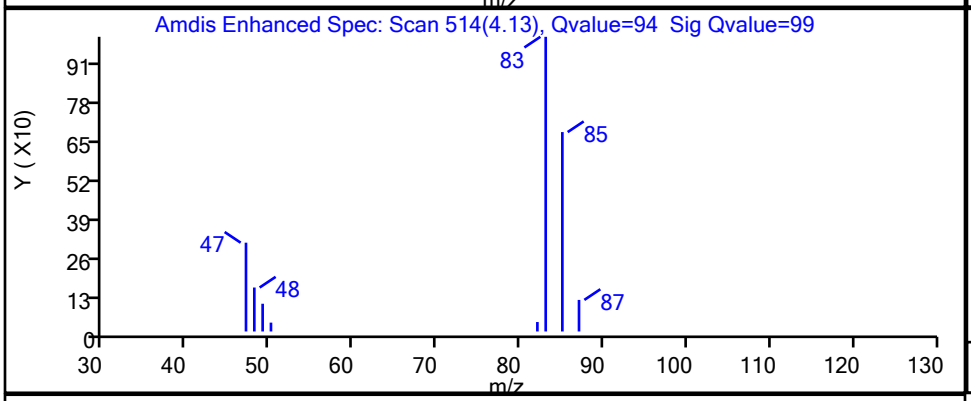
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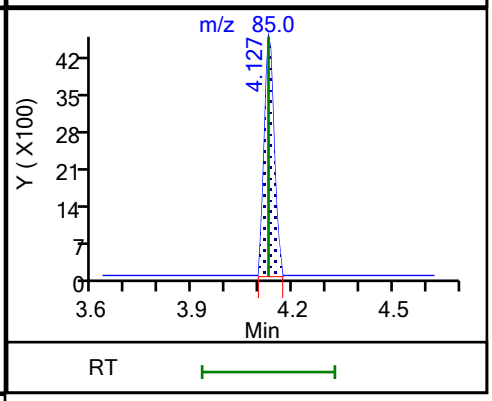
Injection Date:	29-Oct-2024 08:13:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-39	Lab Sample ID:	480-224872-39		
Client ID:	W-23C-102424				
Operator ID:	AK	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

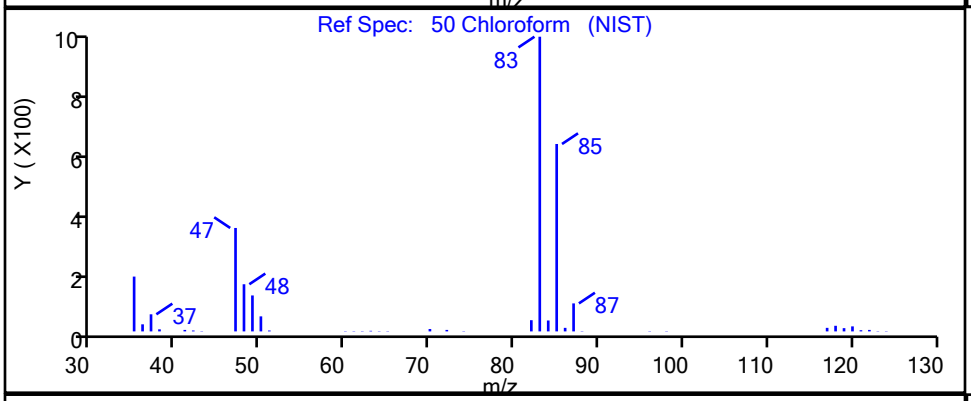
50 Chloroform, CAS: 67-66-3

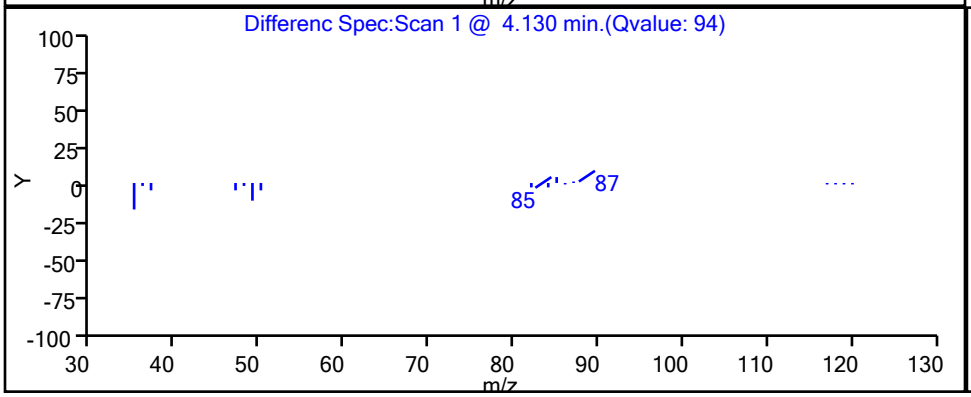


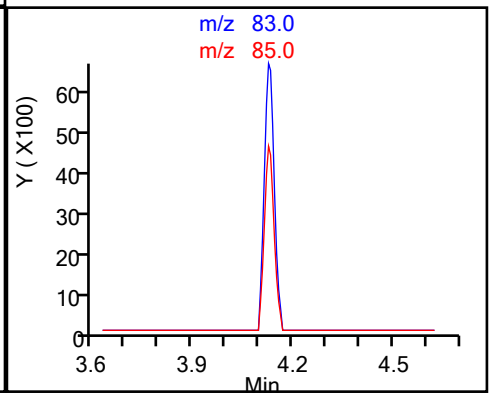












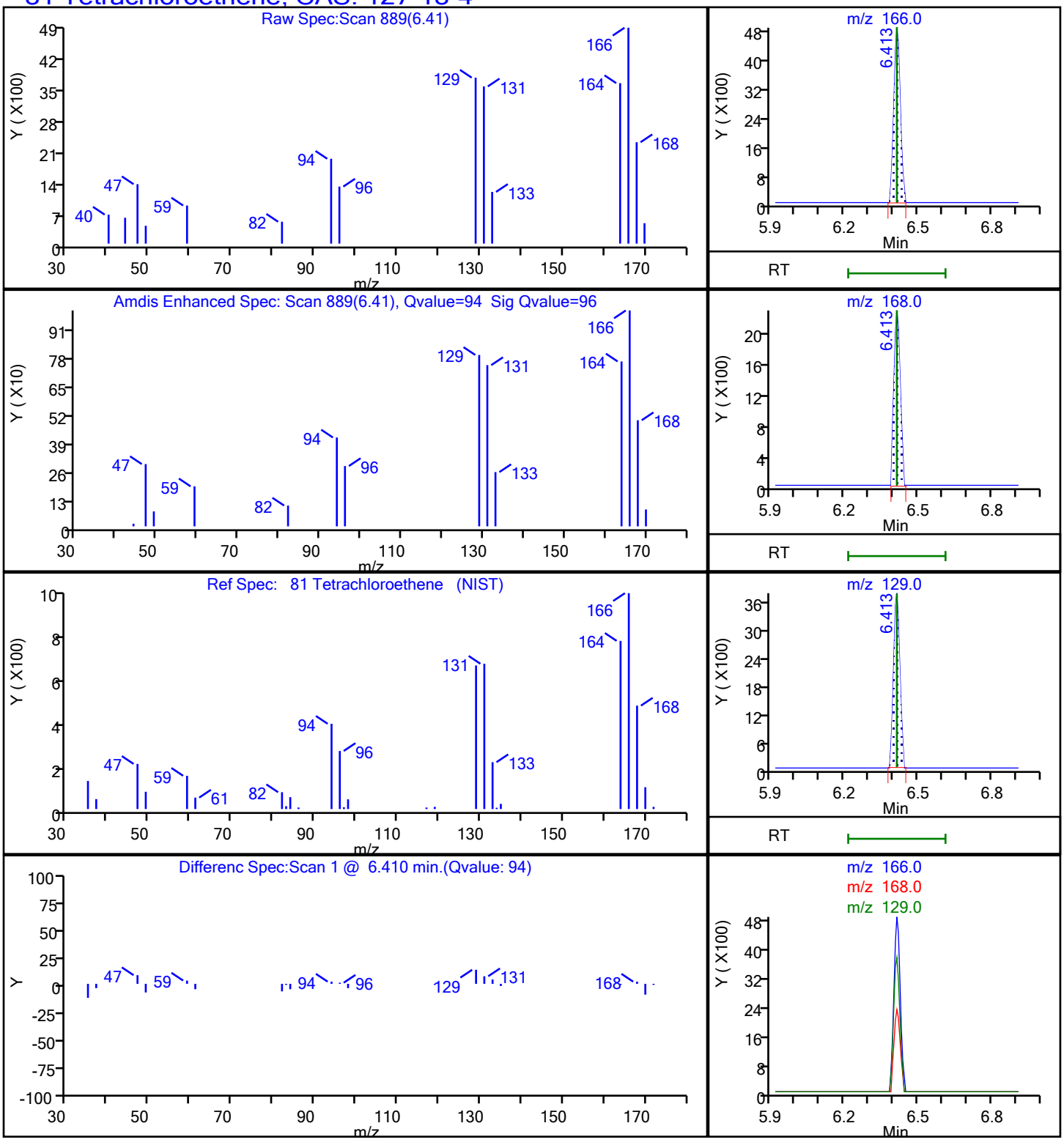
Report Date: 29-Oct-2024 14:11:04 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8392.d

Injection Date:	29-Oct-2024 08:13:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-39	Lab Sample ID:	480-224872-39
Client ID:	W-23C-102424		
Operator ID:	AK	ALS Bottle#:	57 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



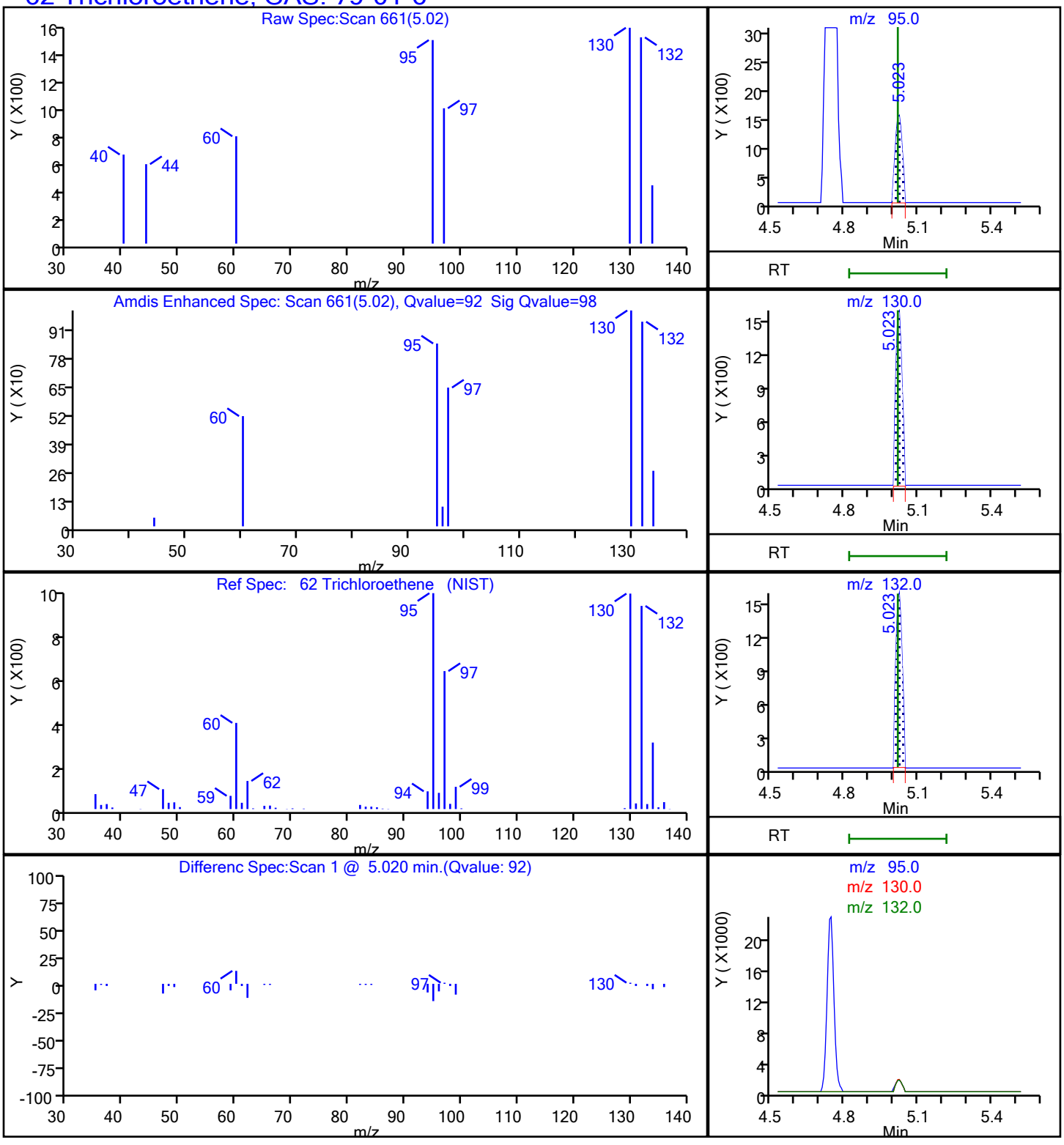
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8392.d

Injection Date:	29-Oct-2024 08:13:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-39	Lab Sample ID:	480-224872-39		
Client ID:	W-23C-102424				
Operator ID:	AK	ALS Bottle#:	57	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-70L-102424 | Lab Sample ID: 480-224872-40

Matrix: Water | Lab File ID: D8393.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 08:35

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:

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3.3		2.0	0.82
75-15-0	Carbon disulfide	0.38	U	2.0	0.38
56-23-5	Carbon tetrachloride	0.54	U	2.0	0.54
108-90-7	Chlorobenzene	28		2.0	1.5
67-66-3	Chloroform	0.68	U	2.0	0.68
75-09-2	Methylene Chloride	0.88	U	2.0	0.88
127-18-4	Tetrachloroethene	0.72	U	2.0	0.72
108-88-3	Toluene	1.0	U	2.0	1.0
79-01-6	Trichloroethene	0.92	U	2.0	0.92

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8393.d
Lims ID: 480-224872-A-40
Client ID: W-70L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:35:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-40
Misc. Info.: 480-0120866-025
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	95714	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	201841	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	235886	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	172460	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	98004	28.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	481111	24.7	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78	4.517	4.517	0.000	96	28577	1.67	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112	7.114	7.114	0.000	97	181639	13.9	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

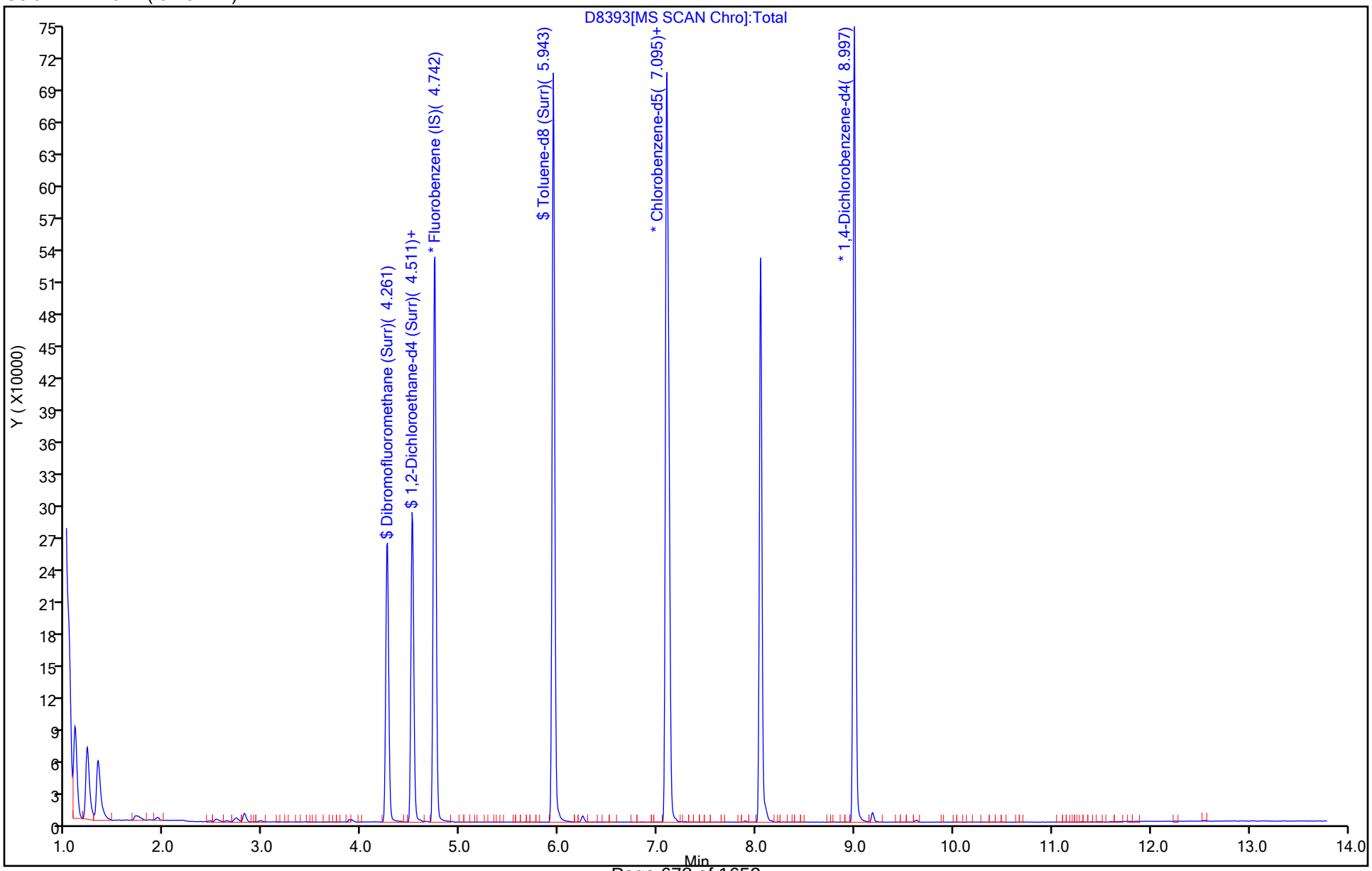
Report Date: 29-Oct-2024 14:11:24 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8393.d

Injection Date:	29-Oct-2024 08:35:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-40	Lab Sample ID:	480-224872-40	Worklist Smp#:	25
Client ID:	W-70L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	2.0000	ALS Bottle#:	58
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8393.d
Lims ID: 480-224872-A-40
Client ID: W-70L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:35:30 ALS Bottle#: 58 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 2.0000
Sample Info: 480-224872-A-40
Misc. Info.: 480-0120866-025
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	112.10
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.1	112.33
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.80

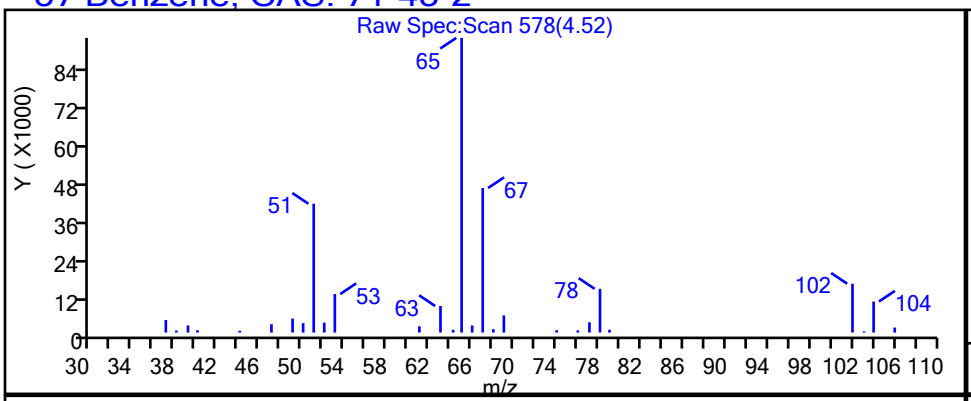
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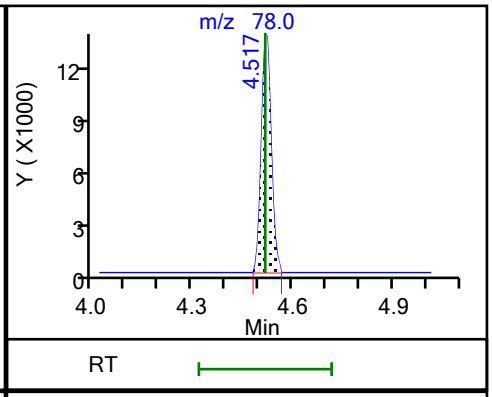
Eurofins Buffalo

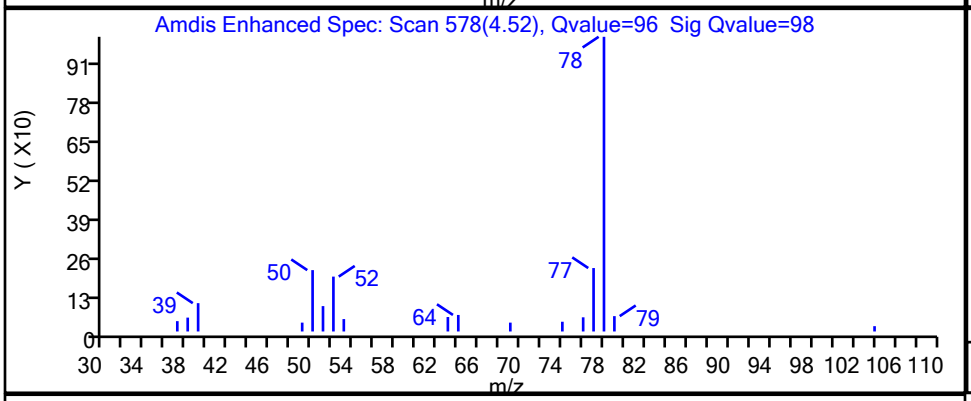
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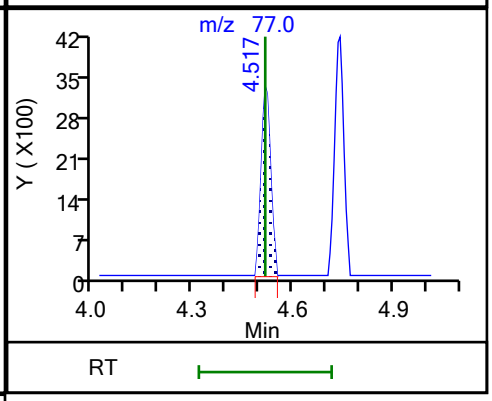
Injection Date:	29-Oct-2024 08:35:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-40	Lab Sample ID:	480-224872-40		
Client ID:	W-70L-102424				
Operator ID:	AK	ALS Bottle#:	58	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

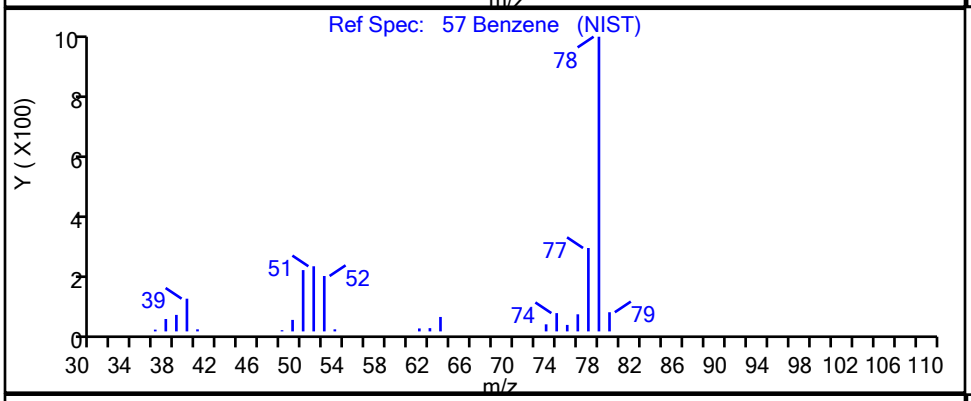
57 Benzene, CAS: 71-43-2

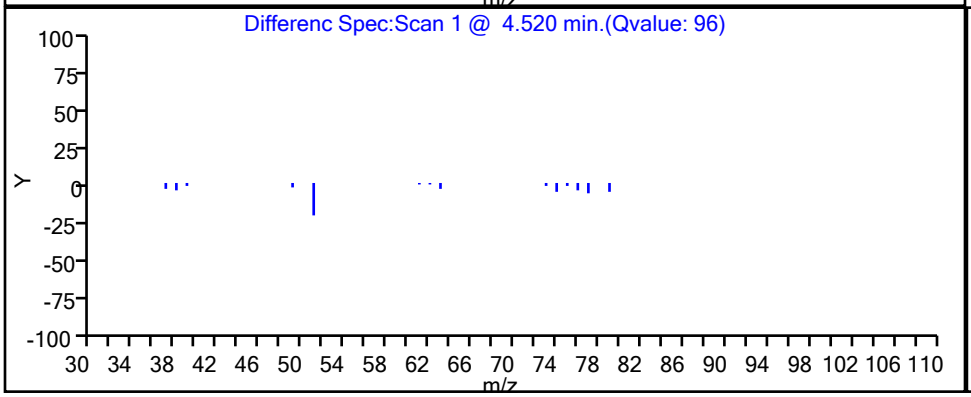


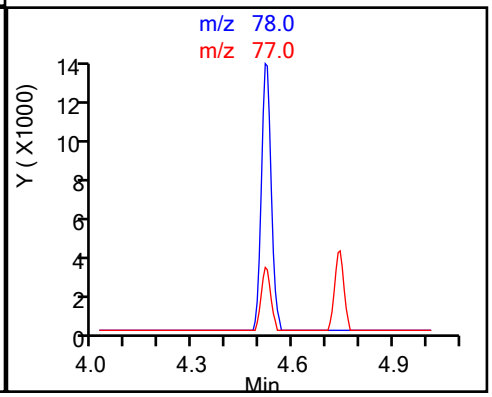












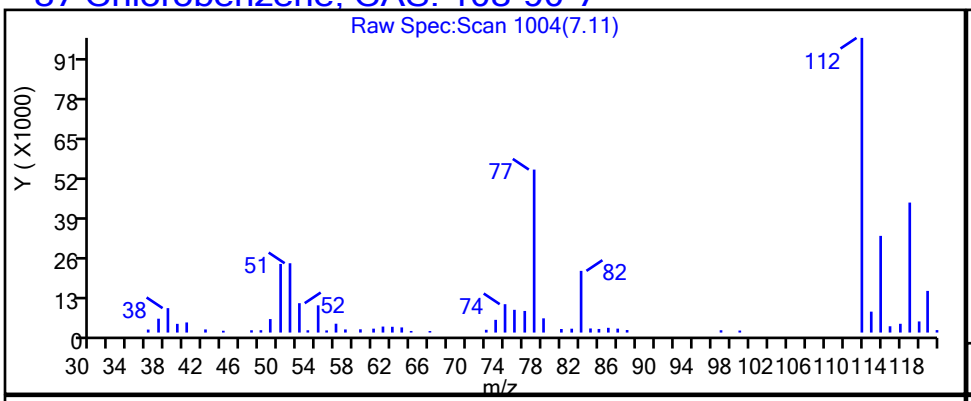
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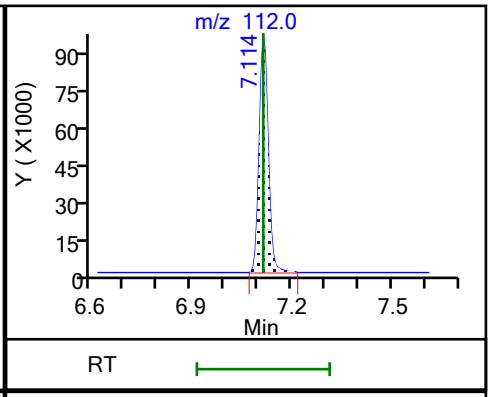
Eurofins Buffalo

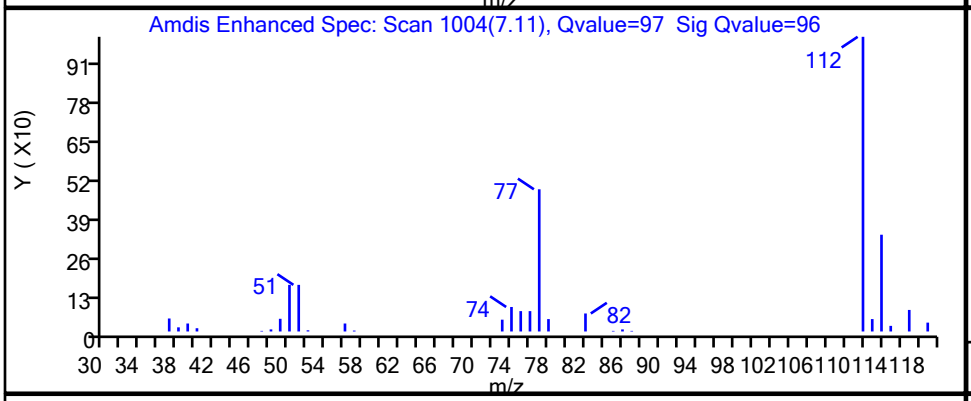
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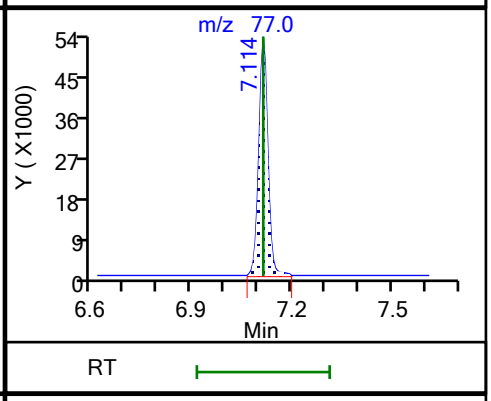
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Lims ID:	480-224872-A-40	Lab Sample ID:	480-224872-40		
Client ID:	W-70L-102424				
Operator ID:	AK	ALS Bottle#:	58	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

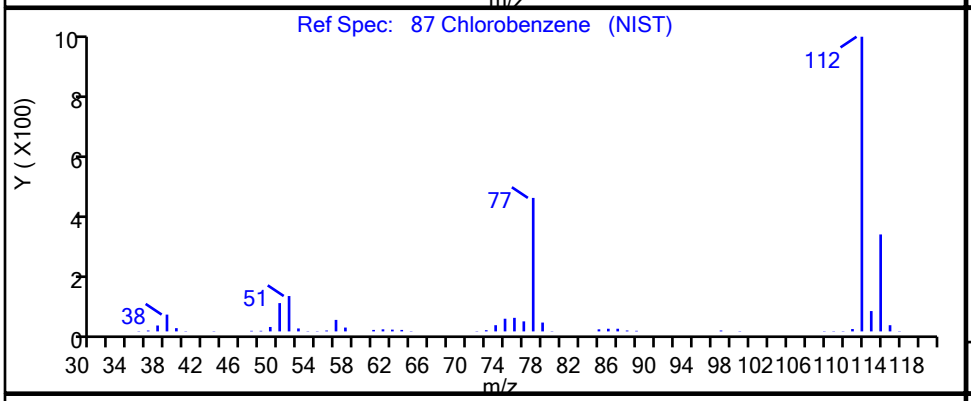
87 Chlorobenzene, CAS: 108-90-7

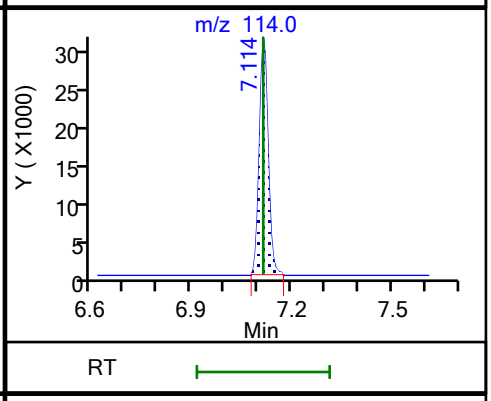


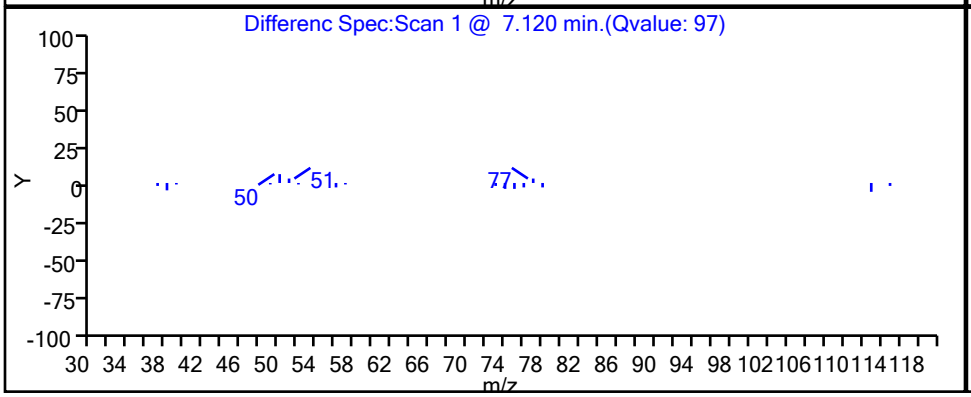


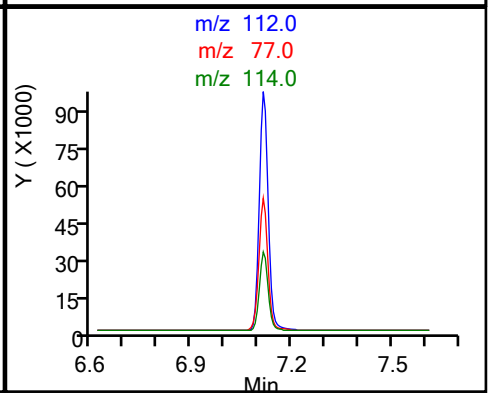












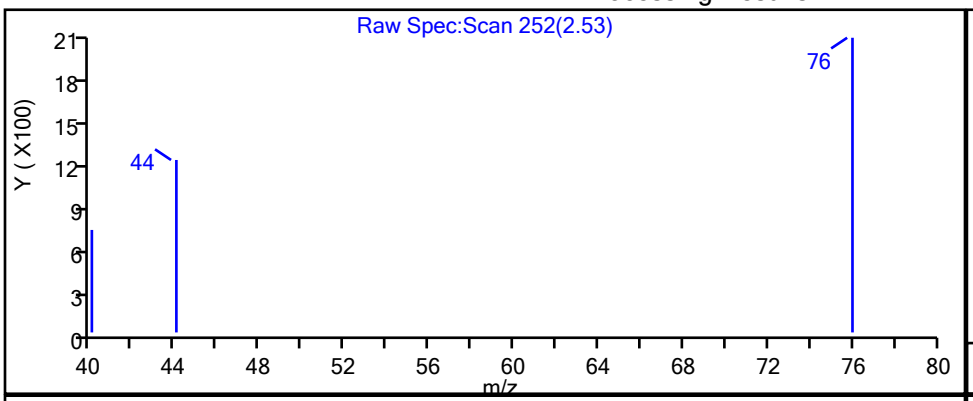
User Disabled Compound Report

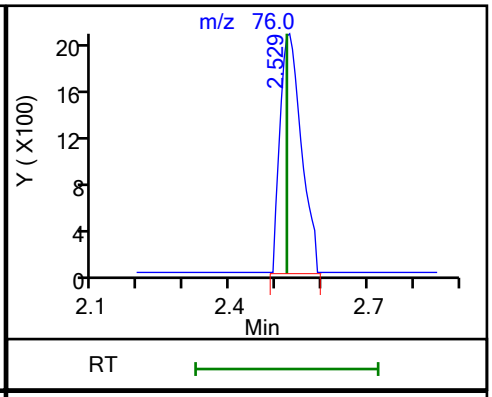
Eurofins Buffalo

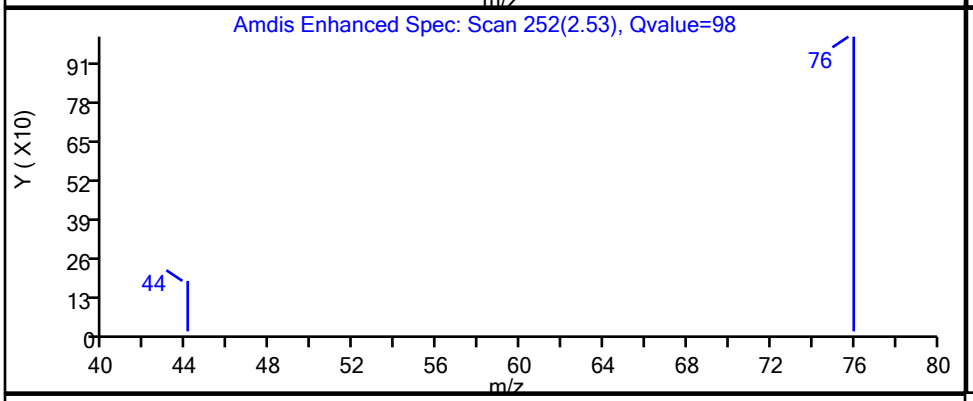
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Injection Date:	29-Oct-2024 08:35:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-40	Lab Sample ID:	480-224872-40		
Client ID:	W-70L-102424				
Operator ID:	AK	ALS Bottle#:	58	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	2.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

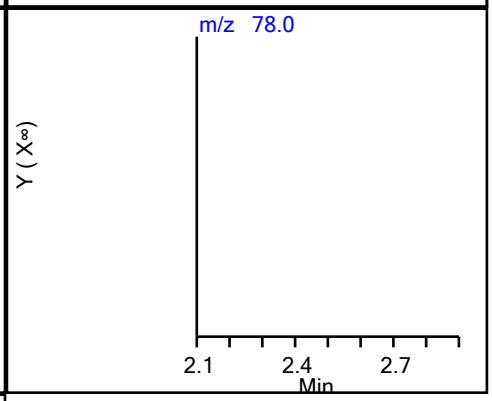
26 Carbon disulfide, CAS: 75-15-0

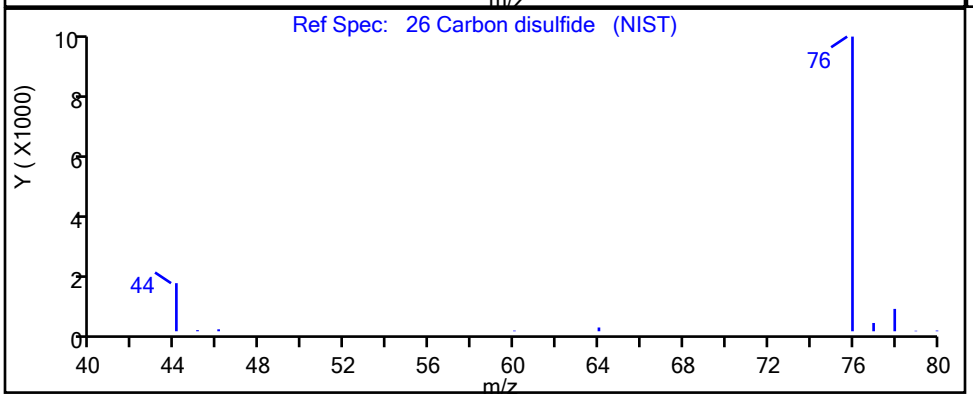
Processing Results











RT	Mass	Response	Amount
2.53	76.00	6551	0.455610
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:11:11 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-18L-102424 | Lab Sample ID: 480-224872-41

Matrix: Water | Lab File ID: D8394.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 08:58

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	16	U	40	16
75-15-0	Carbon disulfide	7.6	U	40	7.6
56-23-5	Carbon tetrachloride	940		40	11
108-90-7	Chlorobenzene	30	U	40	30
67-66-3	Chloroform	1000		40	14
75-09-2	Methylene Chloride	18	U	40	18
127-18-4	Tetrachloroethene	87		40	14
108-88-3	Toluene	20	U	40	20
79-01-6	Trichloroethene	65		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d
Lims ID: 480-224872-A-41
Client ID: W-18L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:58:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-41
Misc. Info.: 480-0120866-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	93404	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	197052	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	235357	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	173658	28.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	97780	28.7	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	476661	25.1	
26 Carbon disulfide	76		2.523				ND	7
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.127	4.126	0.001	95	228559	25.6	
55 Carbon tetrachloride	117	4.340	4.340	0.000	97	152779	23.6	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95	5.023	5.016	0.007	94	7730	1.62	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.413	0.000	94	11368	2.17	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

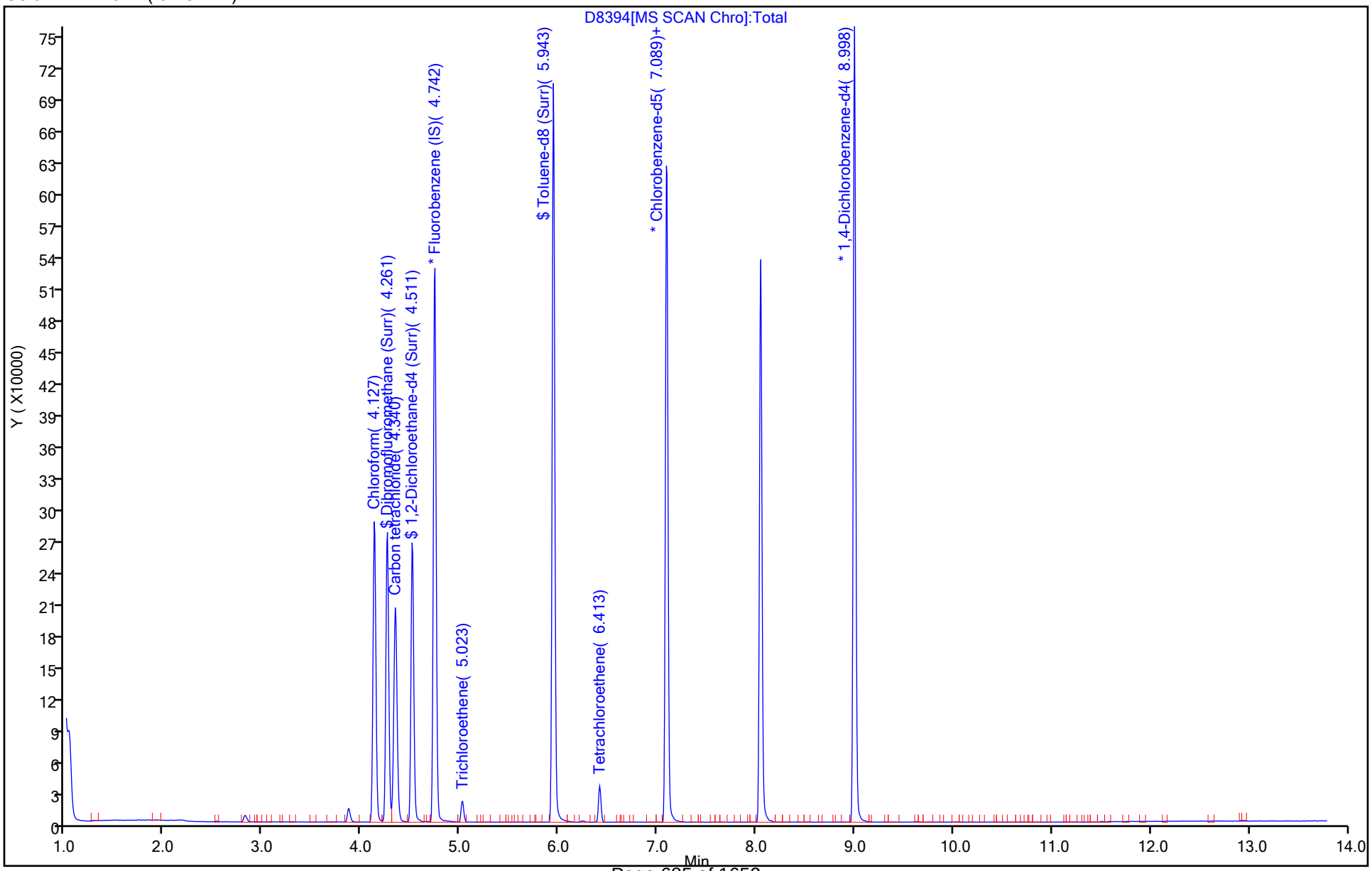
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d

Injection Date:	29-Oct-2024 08:58:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-41	Lab Sample ID:	480-224872-41	Worklist Smp#:	26
Client ID:	W-18L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	59
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d
Lims ID: 480-224872-A-41
Client ID: W-18L-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 08:58:30 ALS Bottle#: 59 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-41
Misc. Info.: 480-0120866-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:11:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.9	115.67
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.7	114.84
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.26

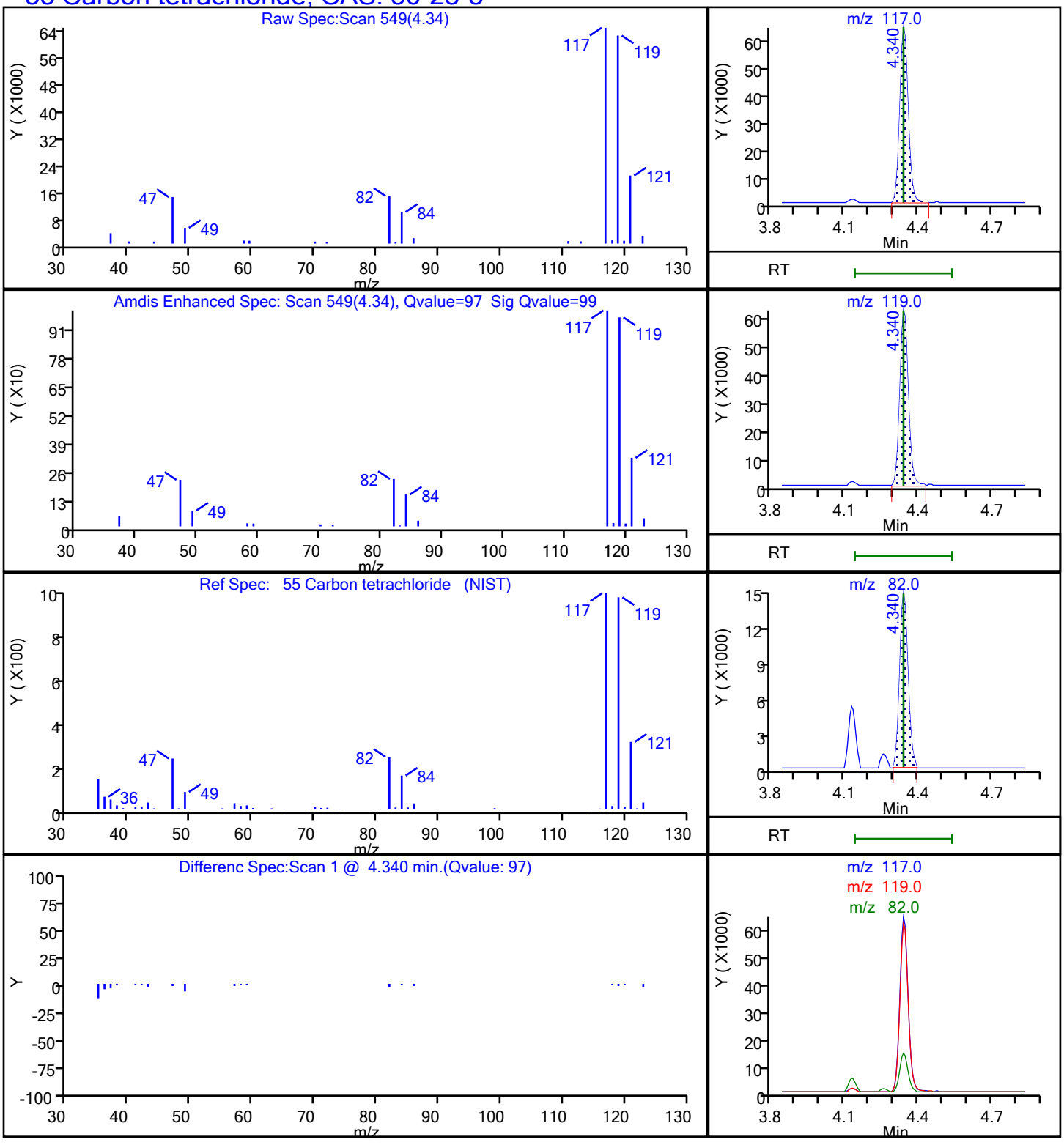
Report Date: 29-Oct-2024 14:11:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d

Injection Date:	29-Oct-2024 08:58:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-41	Lab Sample ID:	480-224872-41		
Client ID:	W-18L-102424				
Operator ID:	AK	ALS Bottle#:	59	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



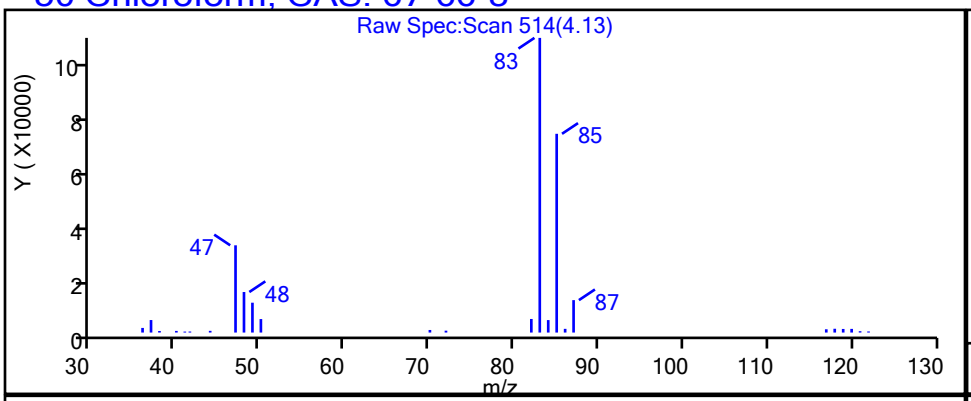
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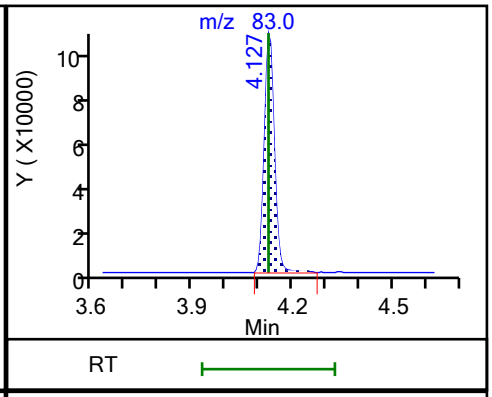
Eurofins Buffalo

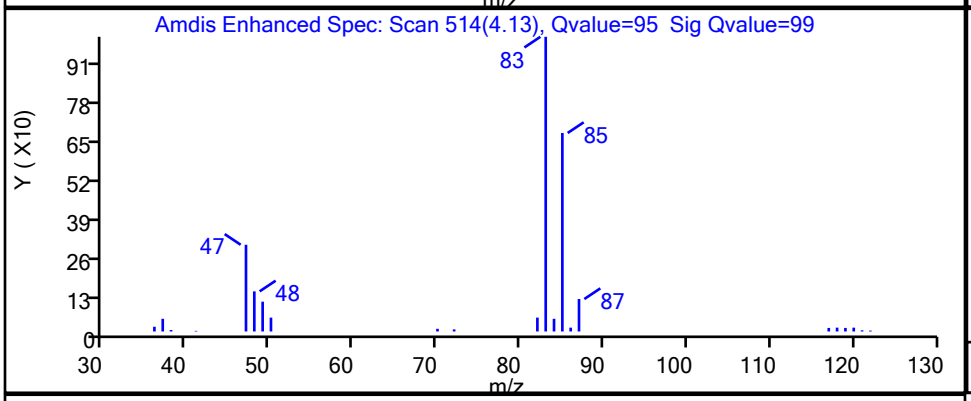
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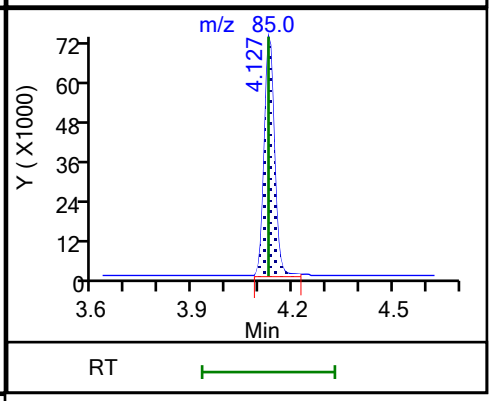
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Lims ID:	480-224872-A-41	Lab Sample ID:	480-224872-41		
Client ID:	W-18L-102424				
Operator ID:	AK	ALS Bottle#:	59	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

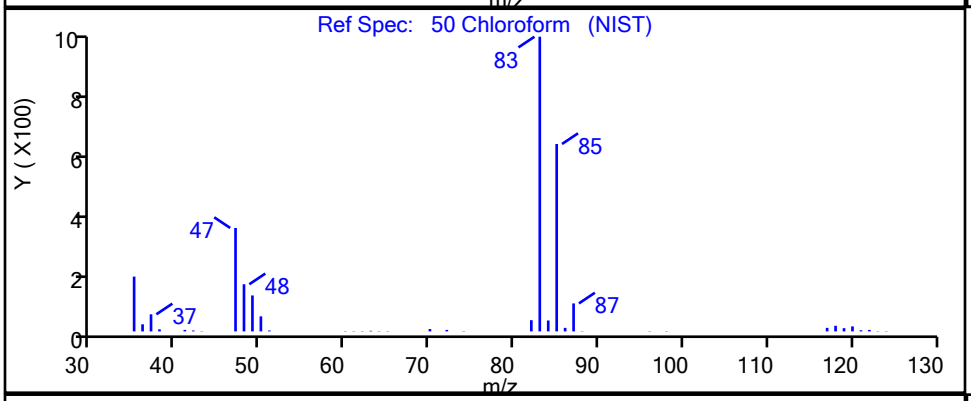
50 Chloroform, CAS: 67-66-3

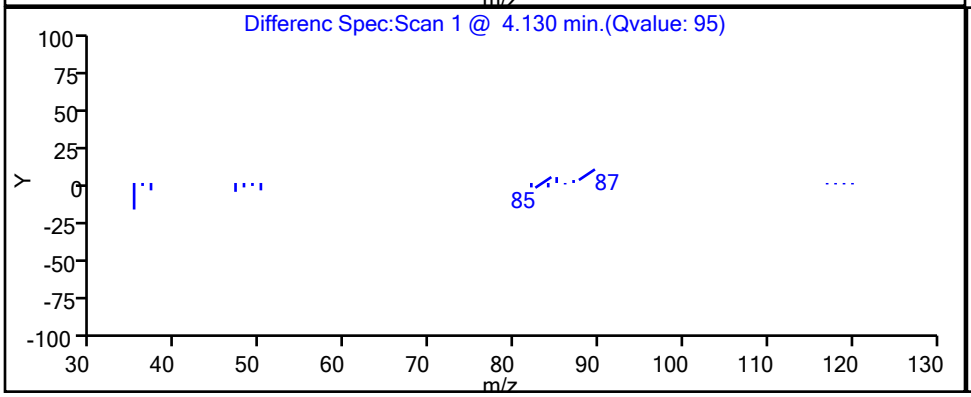


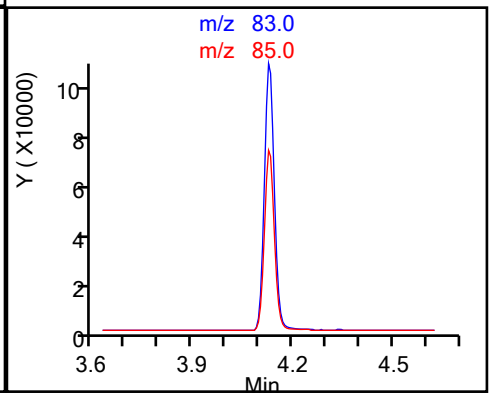












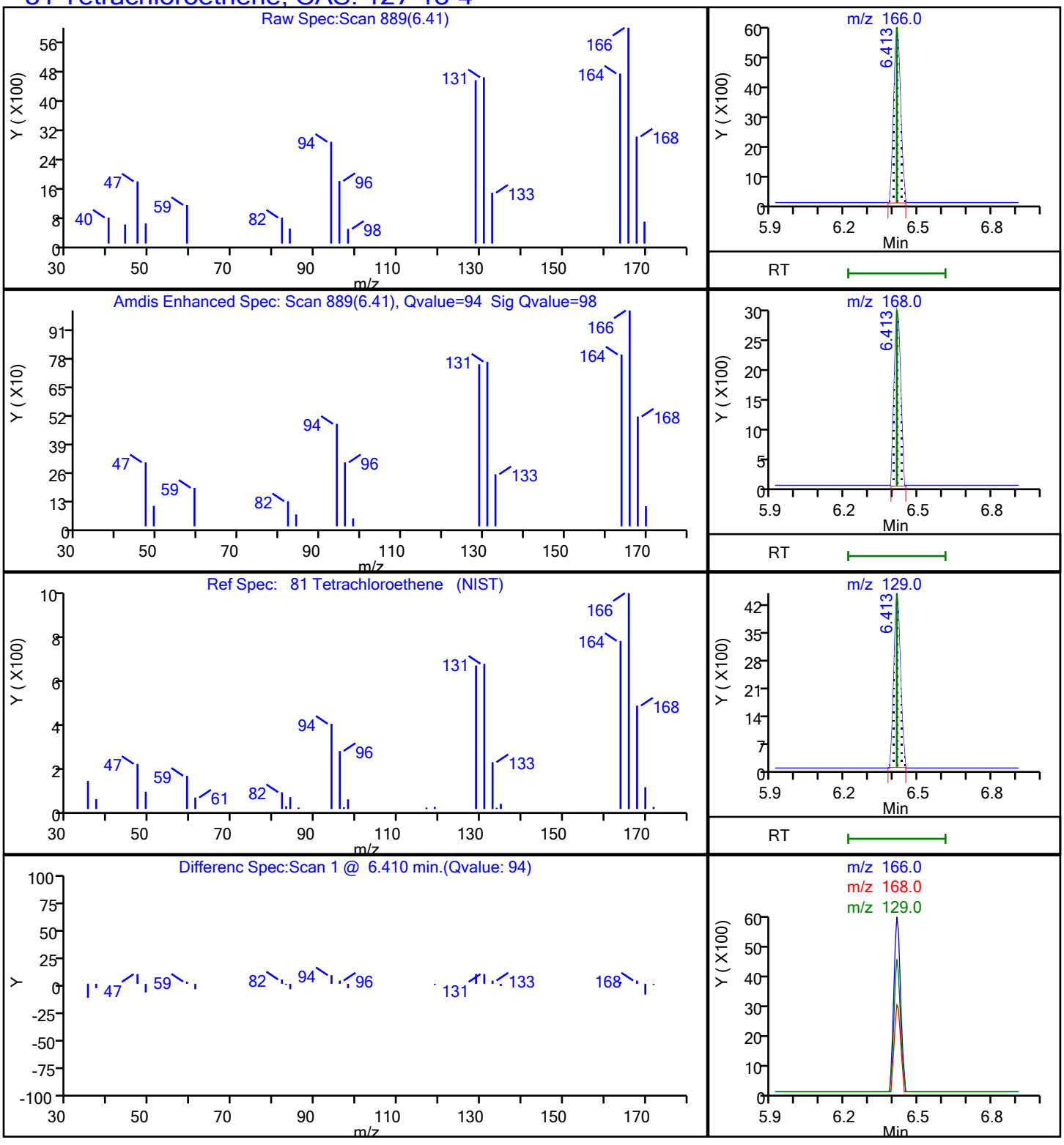
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d

Injection Date:	29-Oct-2024 08:58:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-41	Lab Sample ID:	480-224872-41
Client ID:	W-18L-102424		
Operator ID:	AK	ALS Bottle#:	59 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



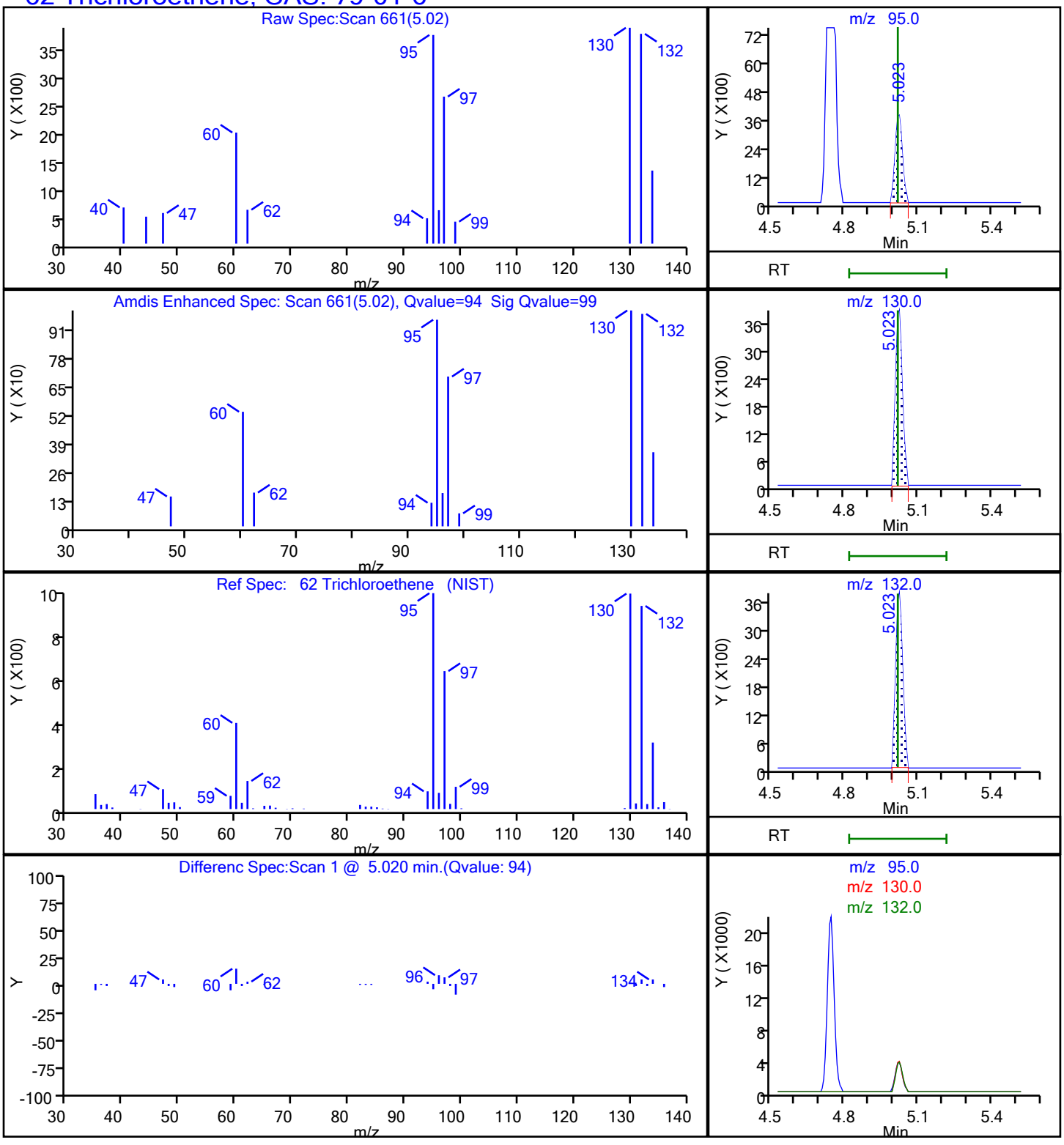
Report Date: 29-Oct-2024 14:11:44 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8394.d

Injection Date:	29-Oct-2024 08:58:30	Instrument ID:	HP5975D
Lims ID:	480-224872-A-41	Lab Sample ID:	480-224872-41
Client ID:	W-18L-102424		
Operator ID:	AK	ALS Bottle#:	59 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	40.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-18R-102424 | Lab Sample ID: 480-224872-42

Matrix: Water | Lab File ID: D8395.d

Analysis Method: 8260C | Date Collected: 10/24/2024 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 09:20

Soil Aliquot Vol: | Dilution Factor: 800

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	330	U	800	330
75-15-0	Carbon disulfide	150	U	800	150
56-23-5	Carbon tetrachloride	36000		800	220
108-90-7	Chlorobenzene	600	U	800	600
67-66-3	Chloroform	11000		800	270
75-09-2	Methylene Chloride	350	U	800	350
127-18-4	Tetrachloroethene	350	J	800	290
108-88-3	Toluene	410	U	800	410
79-01-6	Trichloroethene	370	U	800	370

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8395.d
Lims ID: 480-224872-A-42
Client ID: W-18R-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 09:20:30 ALS Bottle#: 60 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 800.0000
Sample Info: 480-224872-A-42
Misc. Info.: 480-0120866-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	96096	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	200291	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	236261	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	174901	28.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	98	98253	28.0	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	483776	25.0	
26 Carbon disulfide	76		2.523				ND	7
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.127	4.126	0.001	95	121783	13.2	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	298823	44.9	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166	6.413	6.413	0.000	88	2357	0.4421	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

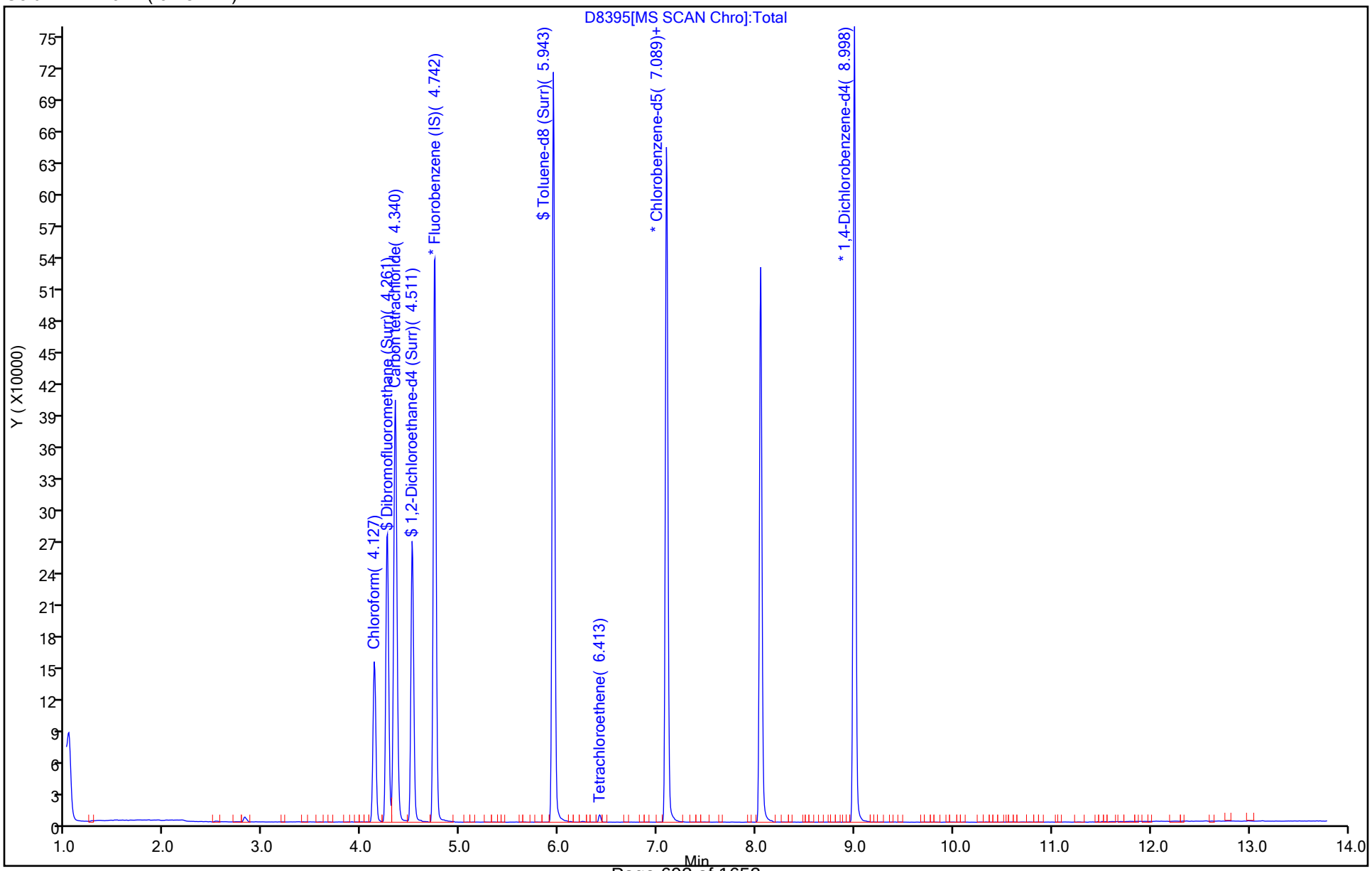
Report Date: 29-Oct-2024 14:12:06 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8395.d

Injection Date:	29-Oct-2024 09:20:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-42	Lab Sample ID:	480-224872-42	Worklist Smp#:	27
Client ID:	W-18R-102424				
Purge Vol:	5.000 mL	Dil. Factor:	800.0000	ALS Bottle#:	60
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8395.d
Lims ID: 480-224872-A-42
Client ID: W-18R-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 09:20:30 ALS Bottle#: 60 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 800.0000
Sample Info: 480-224872-A-42
Misc. Info.: 480-0120866-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:11:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.3	113.23
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.0	112.17
$ 5 Toluene-d8 (Surr)	25.0	25.0	100.12

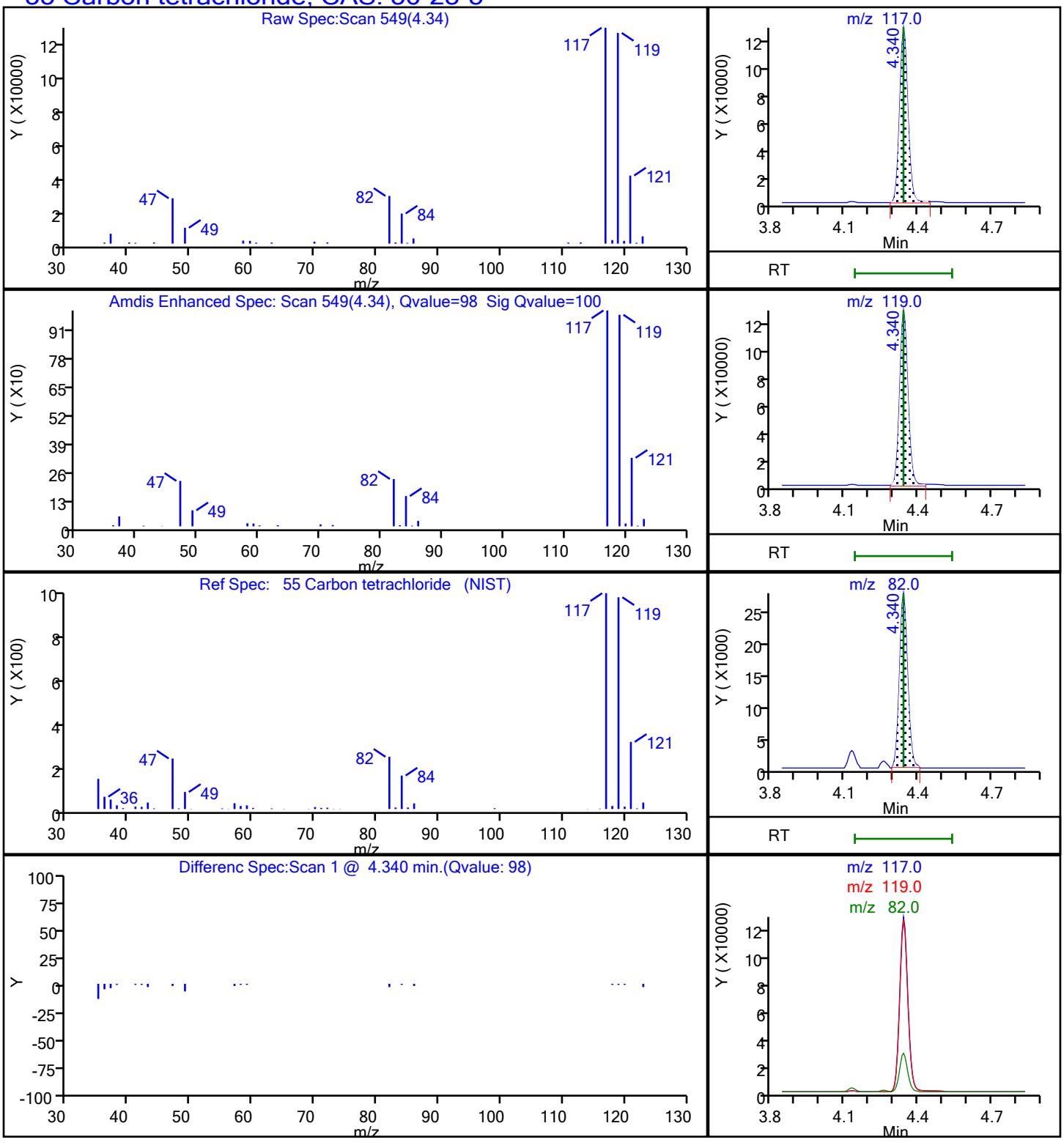
Report Date: 29-Oct-2024 14:12:06 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8395.d

Injection Date:	29-Oct-2024 09:20:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-42	Lab Sample ID:	480-224872-42		
Client ID:	W-18R-102424				
Operator ID:	AK	ALS Bottle#:	60	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



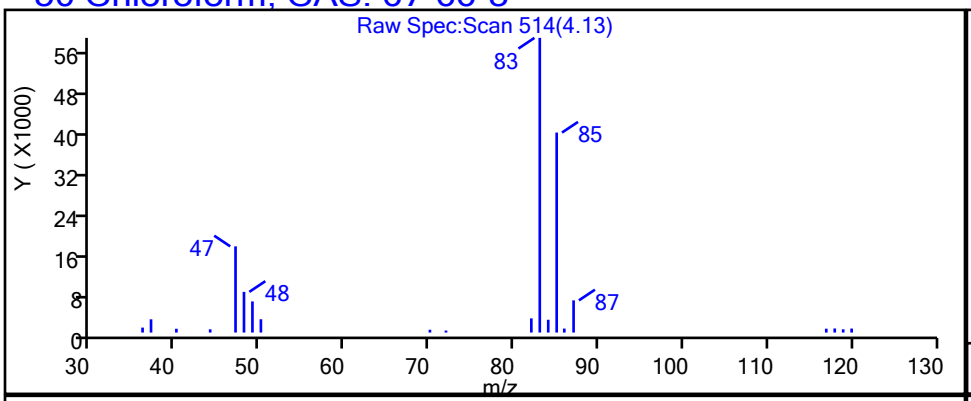
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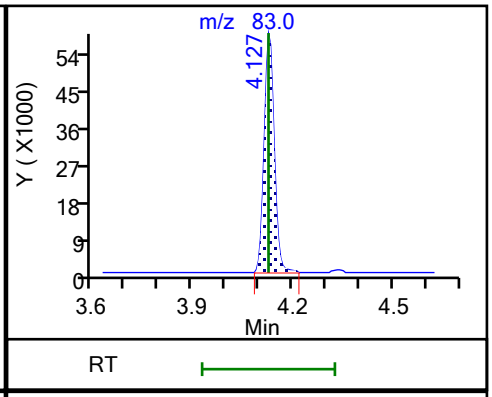
Eurofins Buffalo

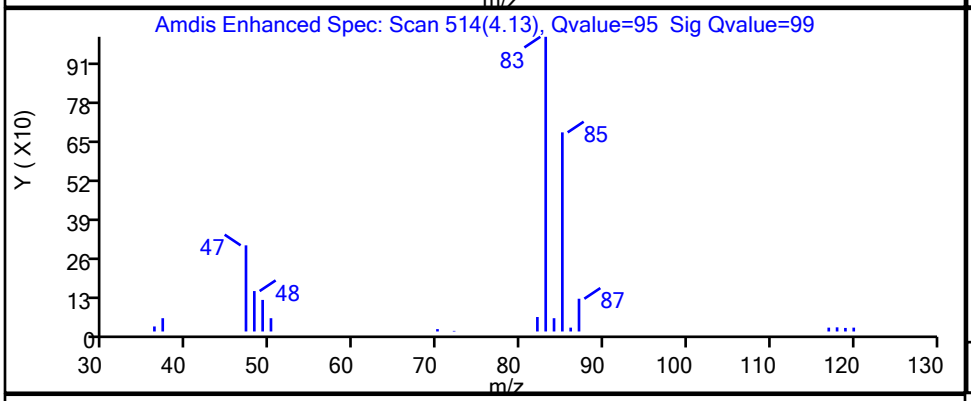
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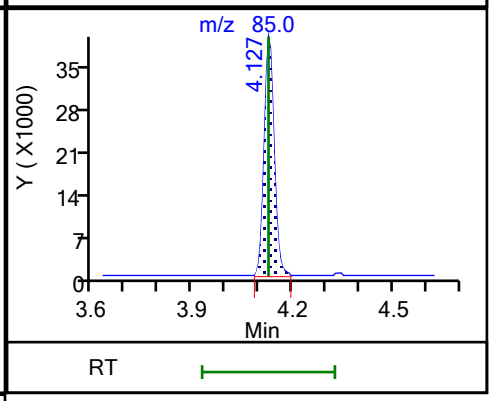
Injection Date:	29-Oct-2024 09:20:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-42	Lab Sample ID:	480-224872-42		
Client ID:	W-18R-102424				
Operator ID:	AK	ALS Bottle#:	60	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

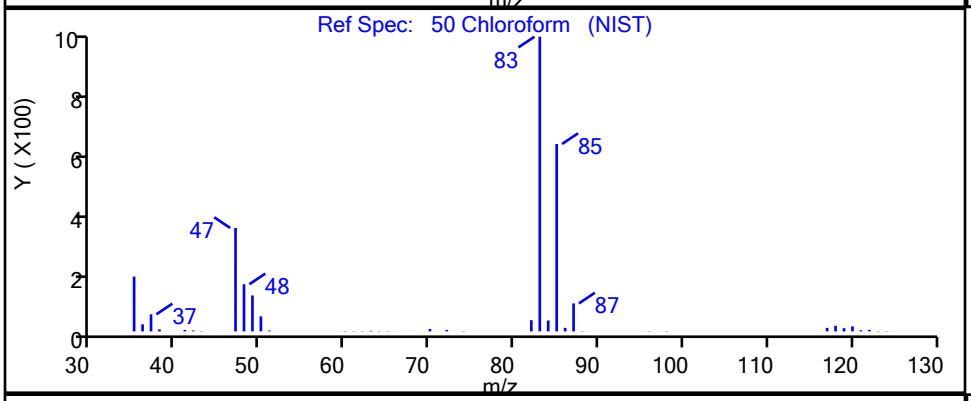
50 Chloroform, CAS: 67-66-3

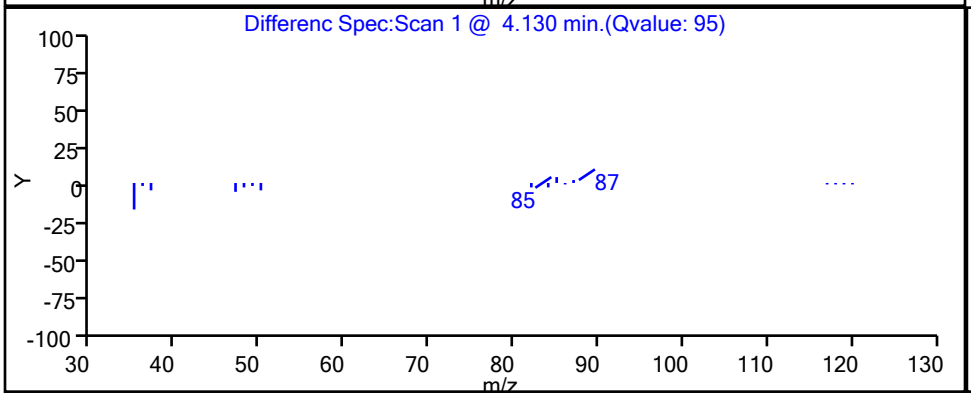


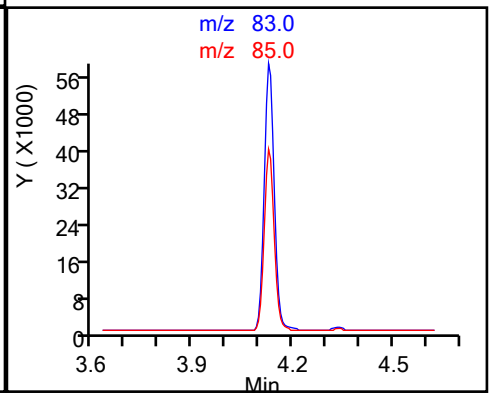












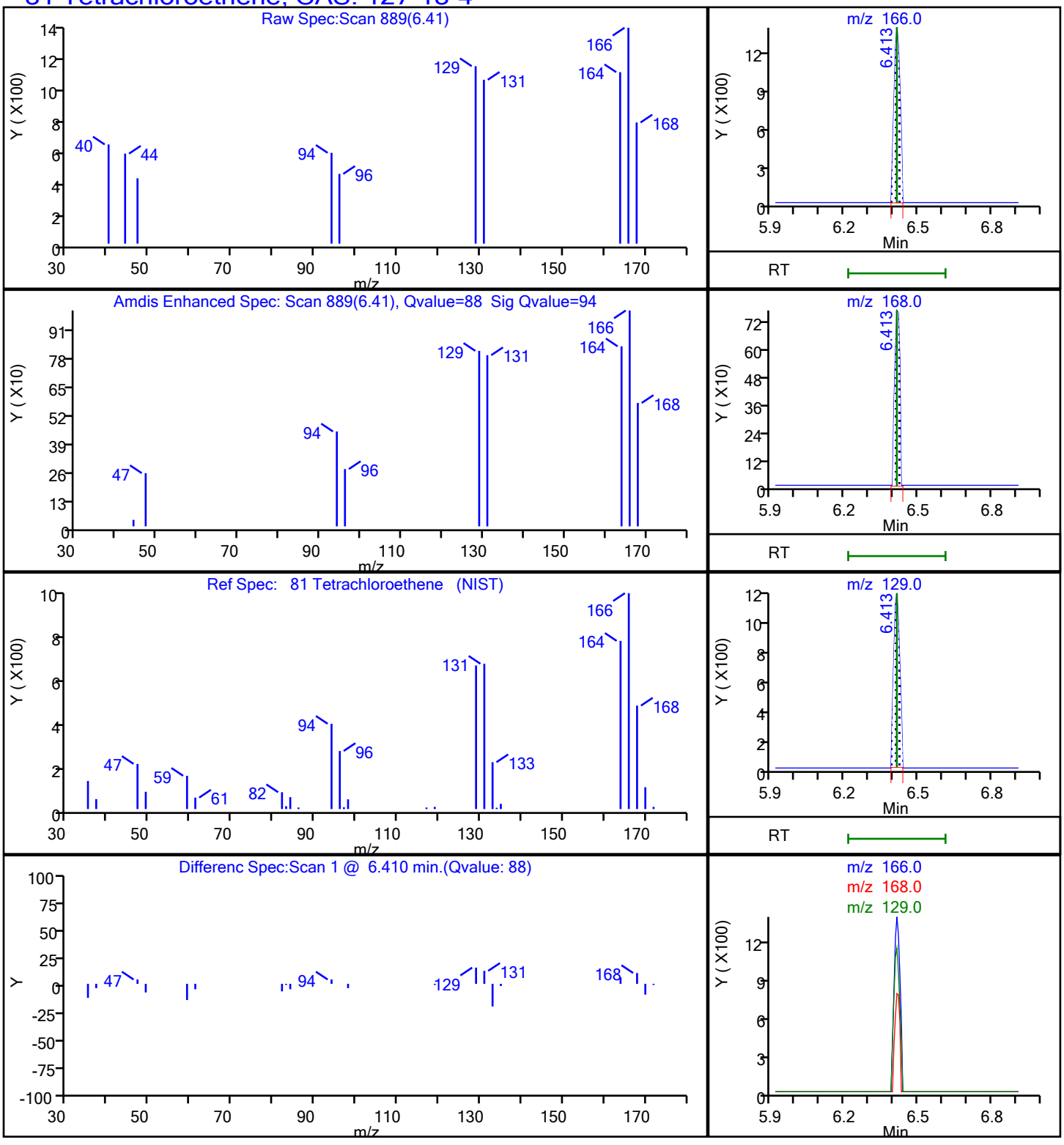
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8395.d

Injection Date:	29-Oct-2024 09:20:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-42	Lab Sample ID:	480-224872-42		
Client ID:	W-18R-102424				
Operator ID:	AK	ALS Bottle#:	60	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	800.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-62-102424 | Lab Sample ID: 480-224872-43

Matrix: Water | Lab File ID: D8428.d

Analysis Method: 8260C | Date Collected: 10/24/2024 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 21:55

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.95	J	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.78	J	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d
Lims ID: 480-224872-B-43
Client ID: LR-62-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 21:55:30 ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-43
Misc. Info.: 480-0120894-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	97951	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	208836	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	239484	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.261	-0.001	93	175666	27.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	-0.001	99	99514	27.9	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	502561	24.9	
26 Carbon disulfide	76		2.541				ND	U
30 Methylene Chloride	84		2.822				ND	7
50 Chloroform	83	4.132	4.133	-0.001	90	1386	0.1479	
55 Carbon tetrachloride	117		4.346				ND	
57 Benzene	78	4.523	4.523	0.000	96	16591	0.9492	
62 Trichloroethene	95	5.023	5.023	-0.001	91	3905	0.7802	
74 Toluene	92		5.998				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

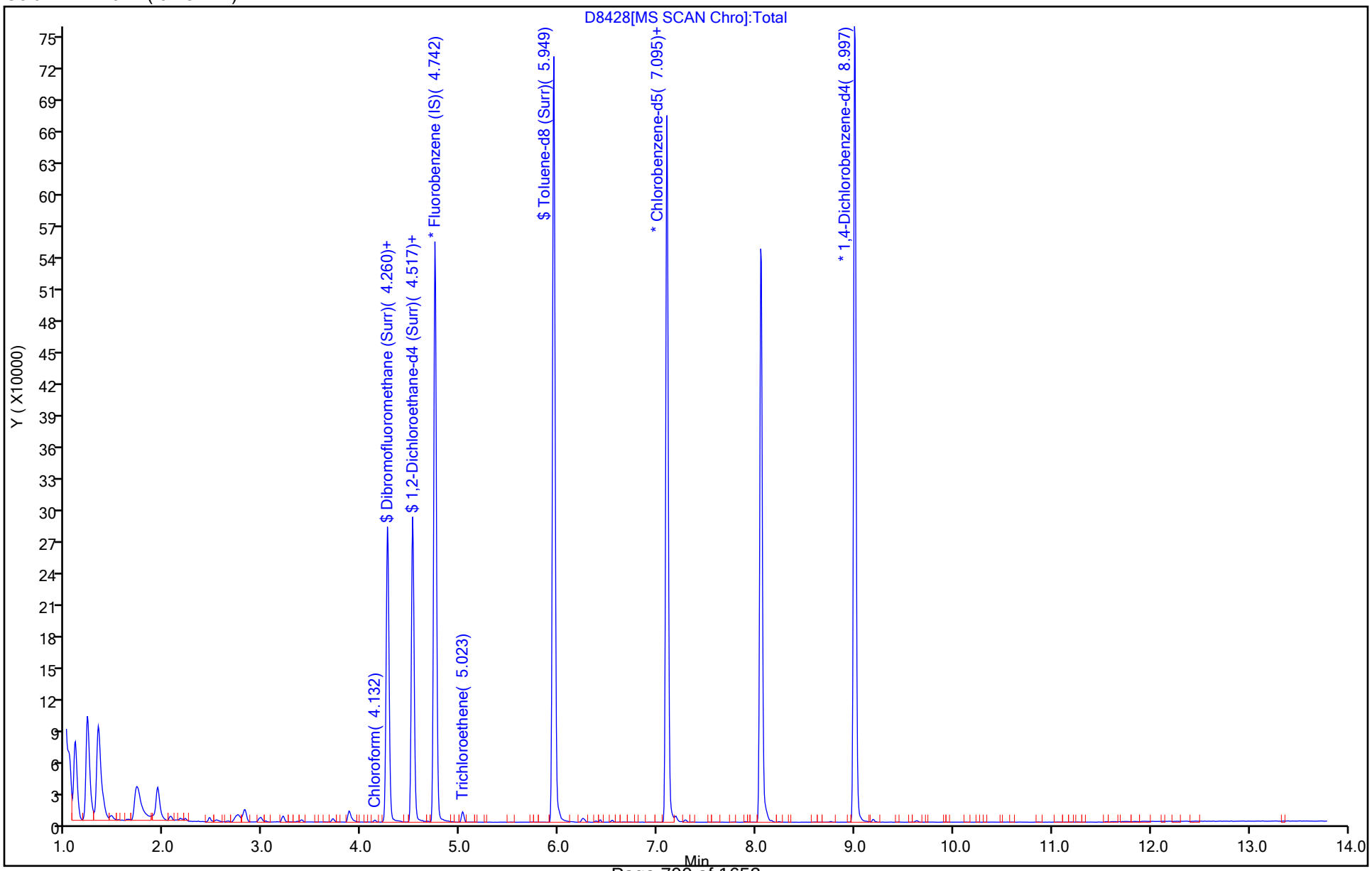
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d

Injection Date:	29-Oct-2024 21:55:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-43	Lab Sample ID:	480-224872-43	Worklist Smp#:	26
Client ID:	LR-62-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d
Lims ID: 480-224872-B-43
Client ID: LR-62-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 21:55:30 ALS Bottle#: 24 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-B-43
Misc. Info.: 480-0120894-026
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.9	111.57
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.9	111.45
$ 5 Toluene-d8 (Surr)	25.0	24.9	99.75

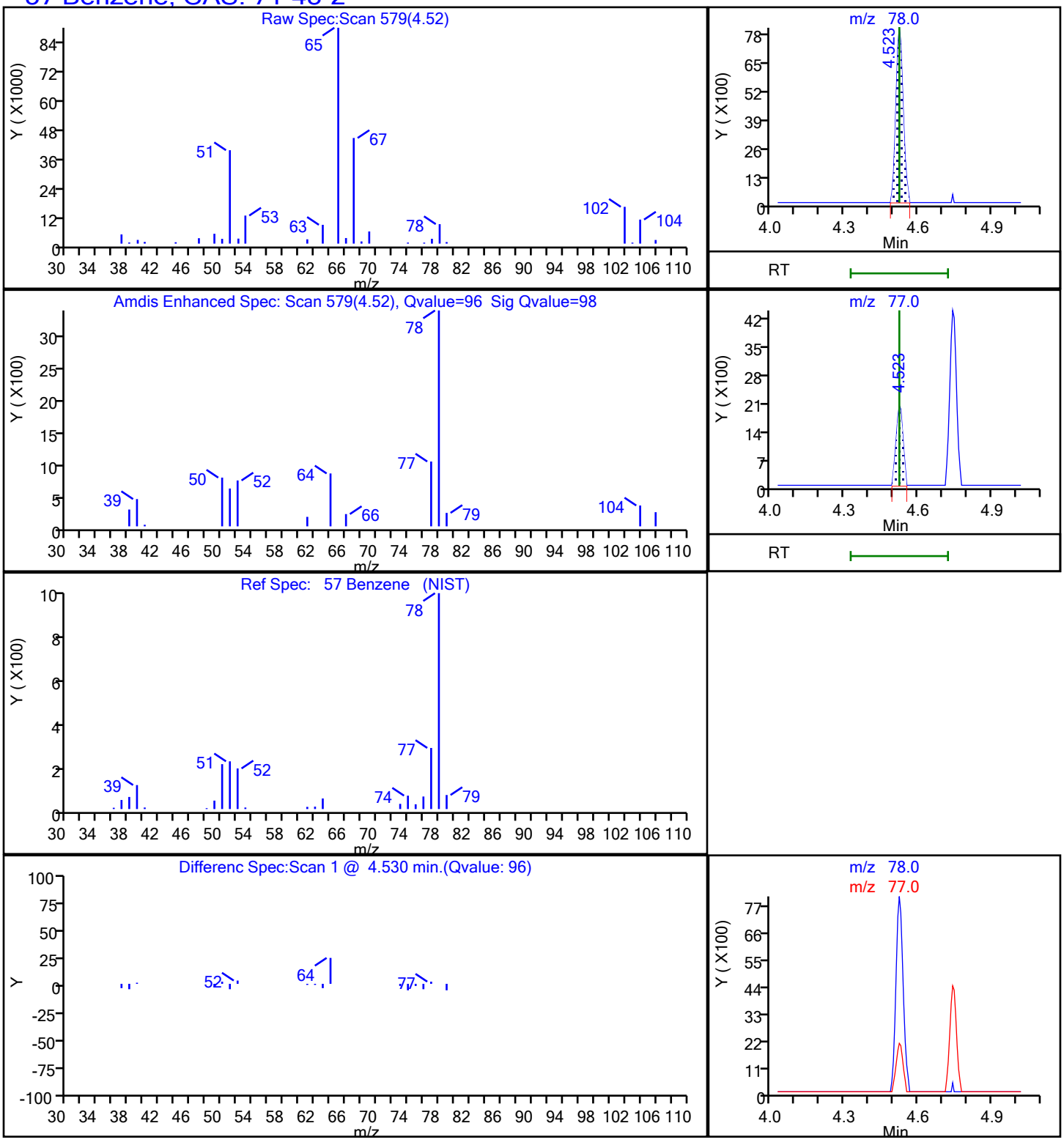
Report Date: 30-Oct-2024 10:42:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d

Injection Date:	29-Oct-2024 21:55:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-43	Lab Sample ID:	480-224872-43
Client ID:	LR-62-102424		
Operator ID:	AK	ALS Bottle#:	24 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

57 Benzene, CAS: 71-43-2



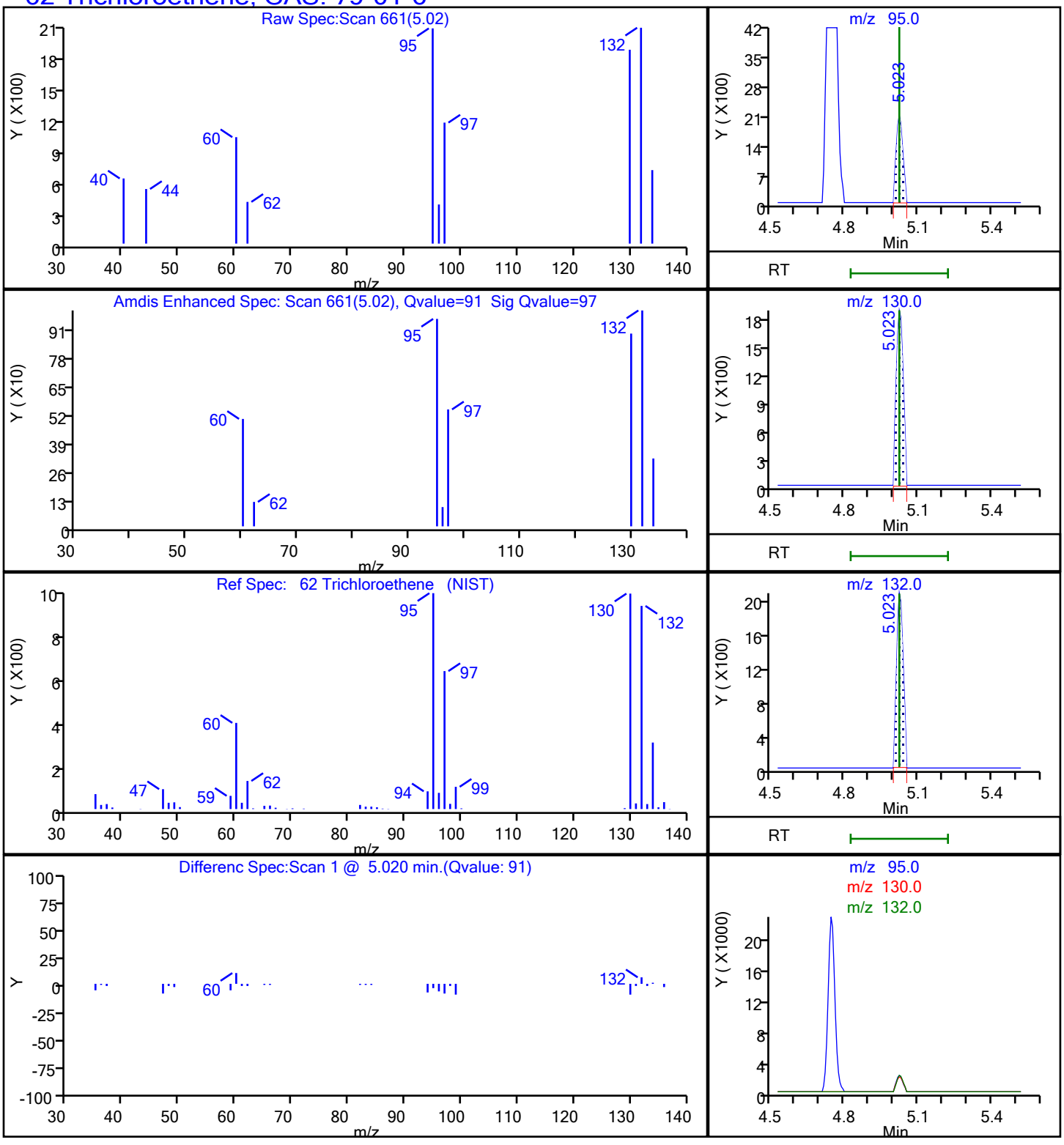
Report Date: 30-Oct-2024 10:42:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d

Injection Date:	29-Oct-2024 21:55:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-43	Lab Sample ID:	480-224872-43
Client ID:	LR-62-102424		
Operator ID:	AK	ALS Bottle#:	24 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



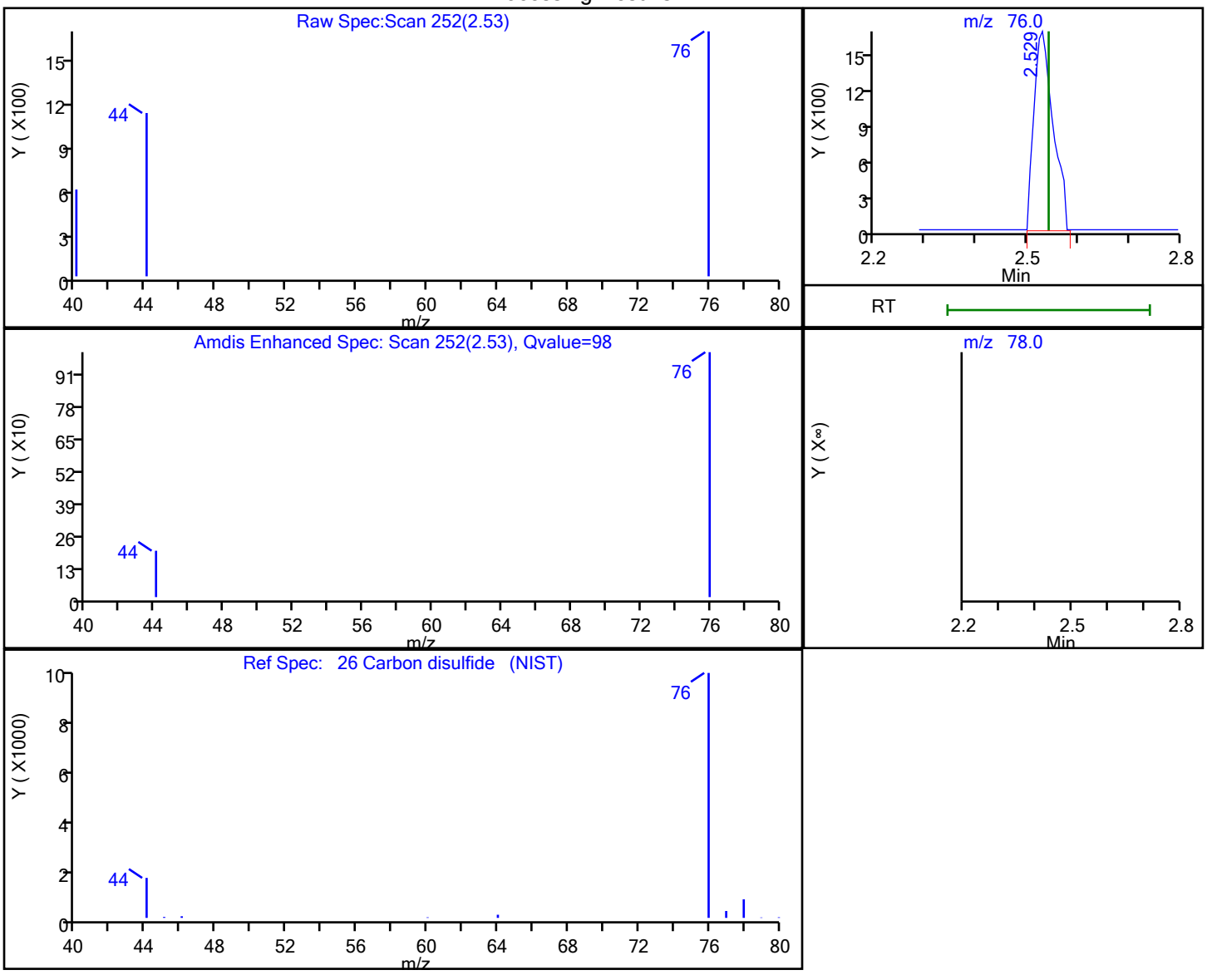
User Disabled Compound Report

Eurofins Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8428.d				
Injection Date:	29-Oct-2024 21:55:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-43	Lab Sample ID:	480-224872-43		
Client ID:	LR-62-102424				
Operator ID:	AK	ALS Bottle#:	24	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	4226	0.287198
2.54	78.00	0	

Reviewer: R3QB, 30-Oct-2024 10:42:34 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-60-102424 | Lab Sample ID: 480-224872-44

Matrix: Water | Lab File ID: D8397.d

Analysis Method: 8260C | Date Collected: 10/24/2024 15:53

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 10:04

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	6.9		1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8397.d
Lims ID: 480-224872-A-44
Client ID: R-60-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 10:04:30 ALS Bottle#: 62 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-44
Misc. Info.: 480-0120866-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.736	4.736	0.000	98	95724	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	205213	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	231664	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	93	172697	28.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	97797	28.0	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	95	489732	24.7	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78	4.517	4.517	0.000	97	118136	6.92	
62 Trichloroethene	95	5.017	5.016	0.001	71	697	0.1425	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

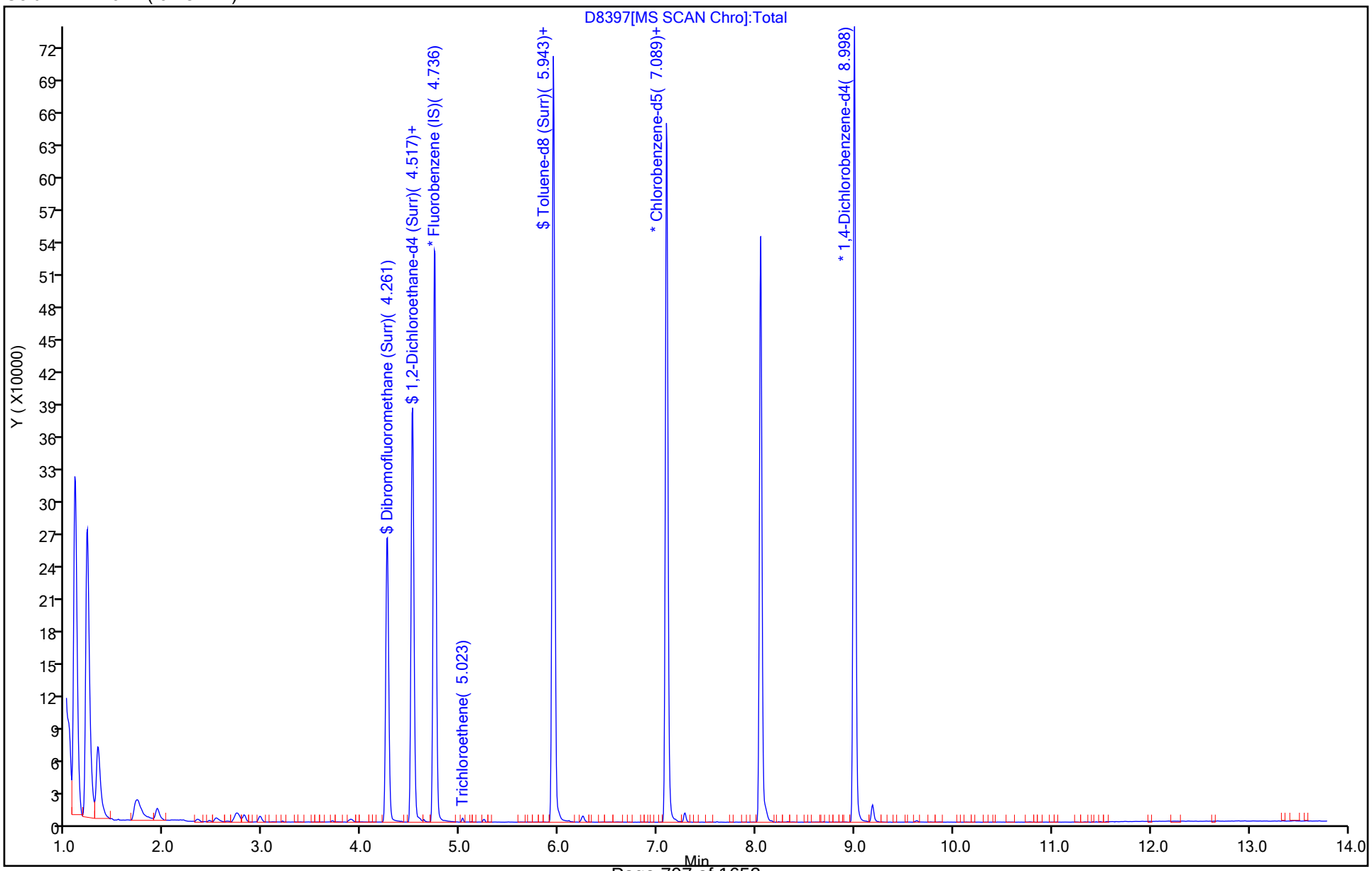
Report Date: 29-Oct-2024 14:12:40 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8397.d

Injection Date:	29-Oct-2024 10:04:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-44	Lab Sample ID:	480-224872-44	Worklist Smp#:	29
Client ID:	R-60-102424				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	62
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8397.d
Lims ID: 480-224872-A-44
Client ID: R-60-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 10:04:30 ALS Bottle#: 62 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-44
Misc. Info.: 480-0120866-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.1	112.24
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.0	112.08
$ 5 Toluene-d8 (Surr)	25.0	24.7	98.92

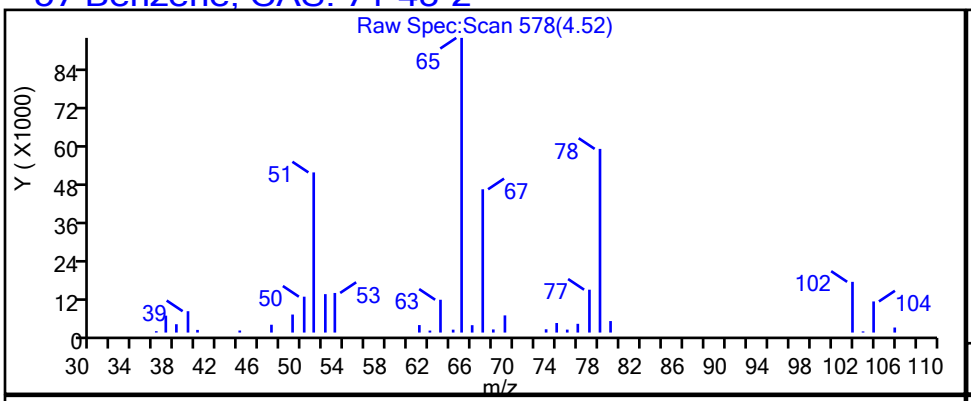
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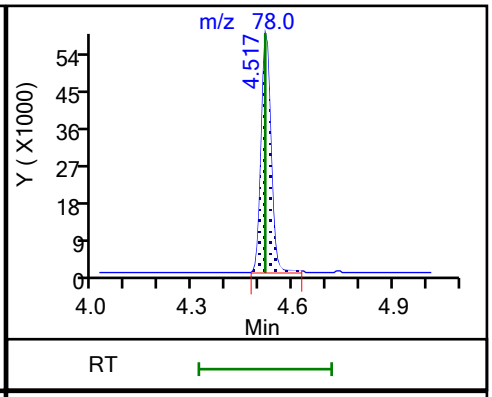
Eurofins Buffalo

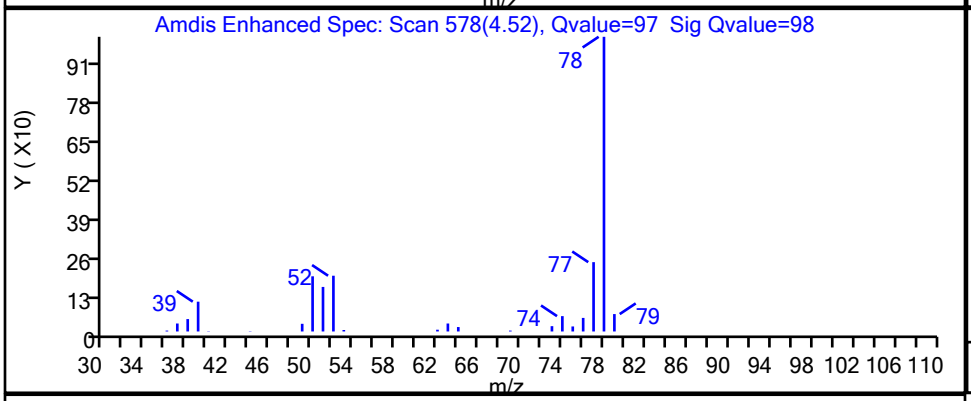
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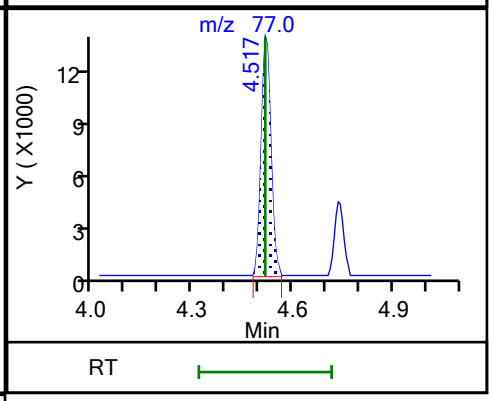
Injection Date:	29-Oct-2024 10:04:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-44	Lab Sample ID:	480-224872-44		
Client ID:	R-60-102424				
Operator ID:	AK	ALS Bottle#:	62	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

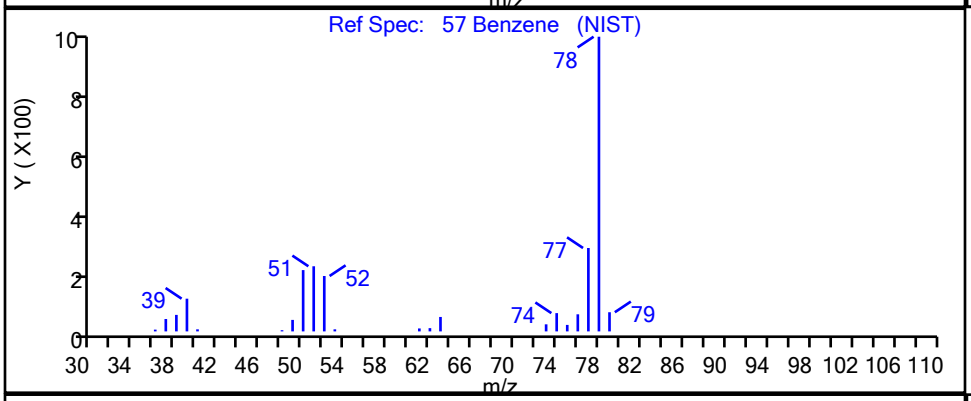
57 Benzene, CAS: 71-43-2

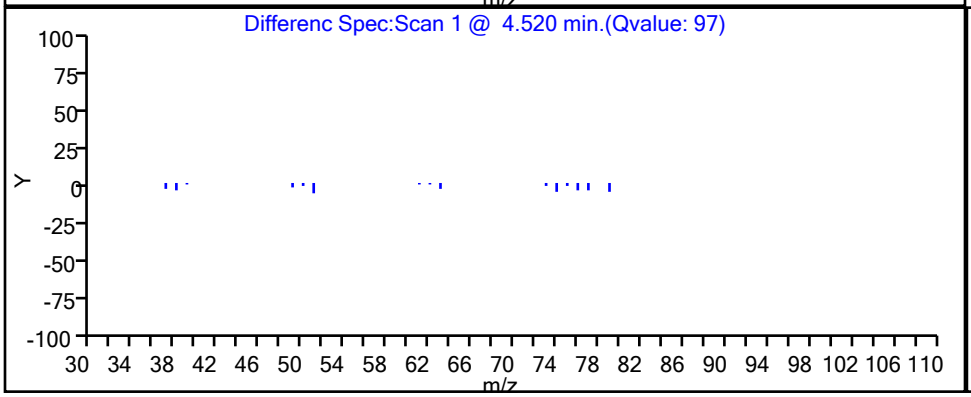


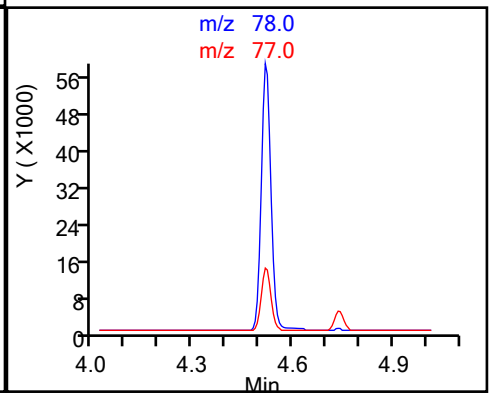












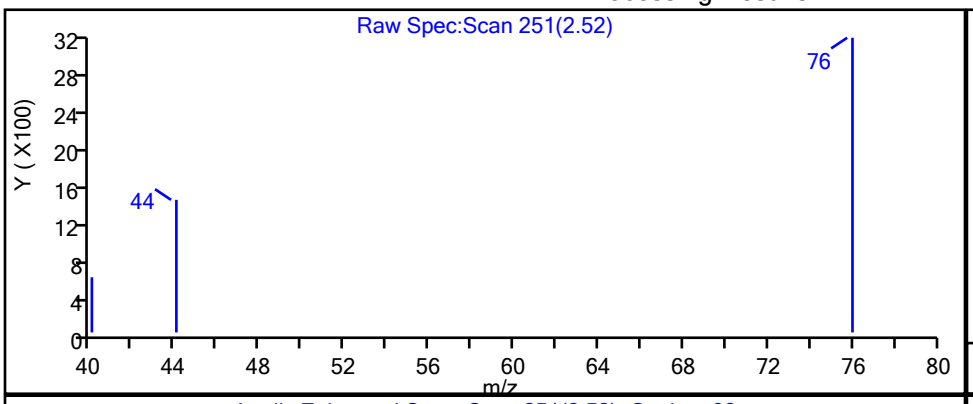
User Disabled Compound Report

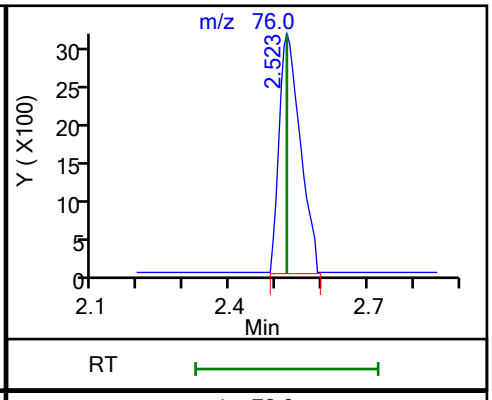
Eurofins Buffalo

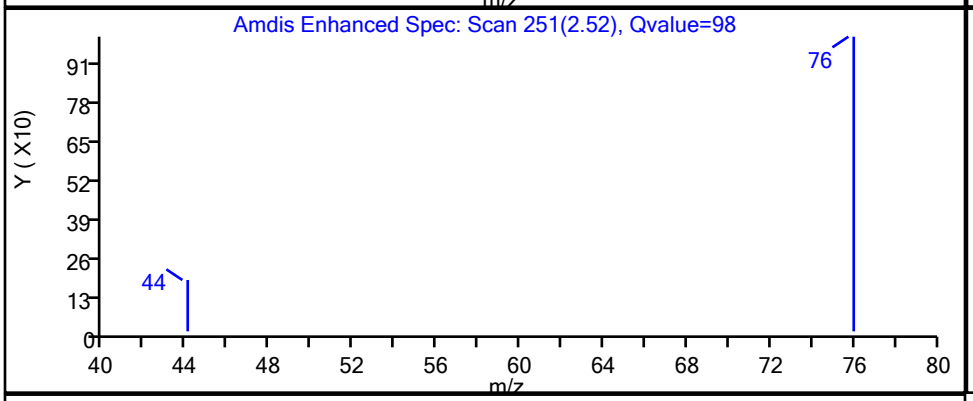
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Injection Date:	29-Oct-2024 10:04:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-44	Lab Sample ID:	480-224872-44		
Client ID:	R-60-102424				
Operator ID:	AK	ALS Bottle#:	62	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

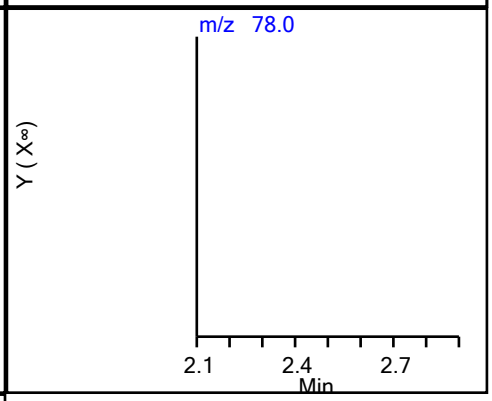
26 Carbon disulfide, CAS: 75-15-0

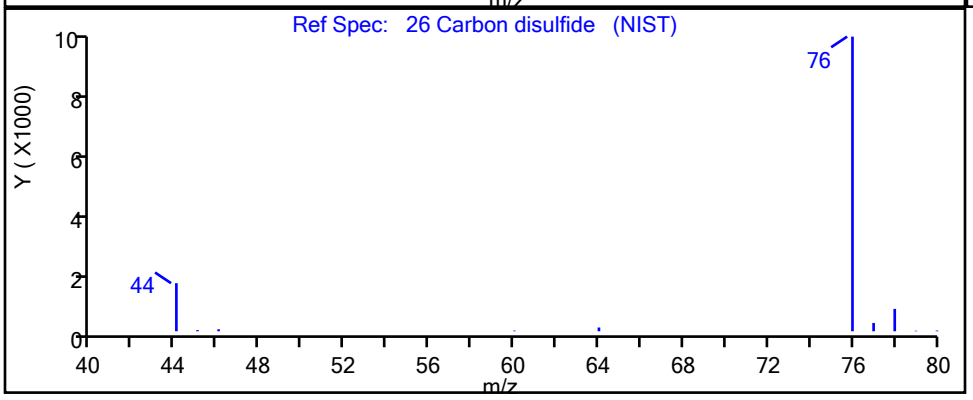
Processing Results











RT	Mass	Response	Amount
2.52	76.00	9903	0.688664
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:12:36 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-60-102424-DUP | Lab Sample ID: 480-224872-45

Matrix: Water | Lab File ID: D8398.d

Analysis Method: 8260C | Date Collected: 10/24/2024 15:53

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 10:26

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	6.5		1.0	0.41
75-15-0	Carbon disulfide	0.74	J	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8398.d
Lims ID: 480-224872-A-45
Client ID: R-60-102424-DUP
Sample Type: Client
Inject. Date: 29-Oct-2024 10:26:30 ALS Bottle#: 63 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-45
Misc. Info.: 480-0120866-030
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	95951	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	206012	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	235131	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.006	92	173545	28.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	99	98225	28.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	486943	24.5	
26 Carbon disulfide	76	2.523	2.523	0.000	100	10644	0.7384	
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83		4.126				ND	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78	4.517	4.517	0.000	97	111074	6.49	
62 Trichloroethene	95	5.023	5.016	0.007	80	964	0.1966	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

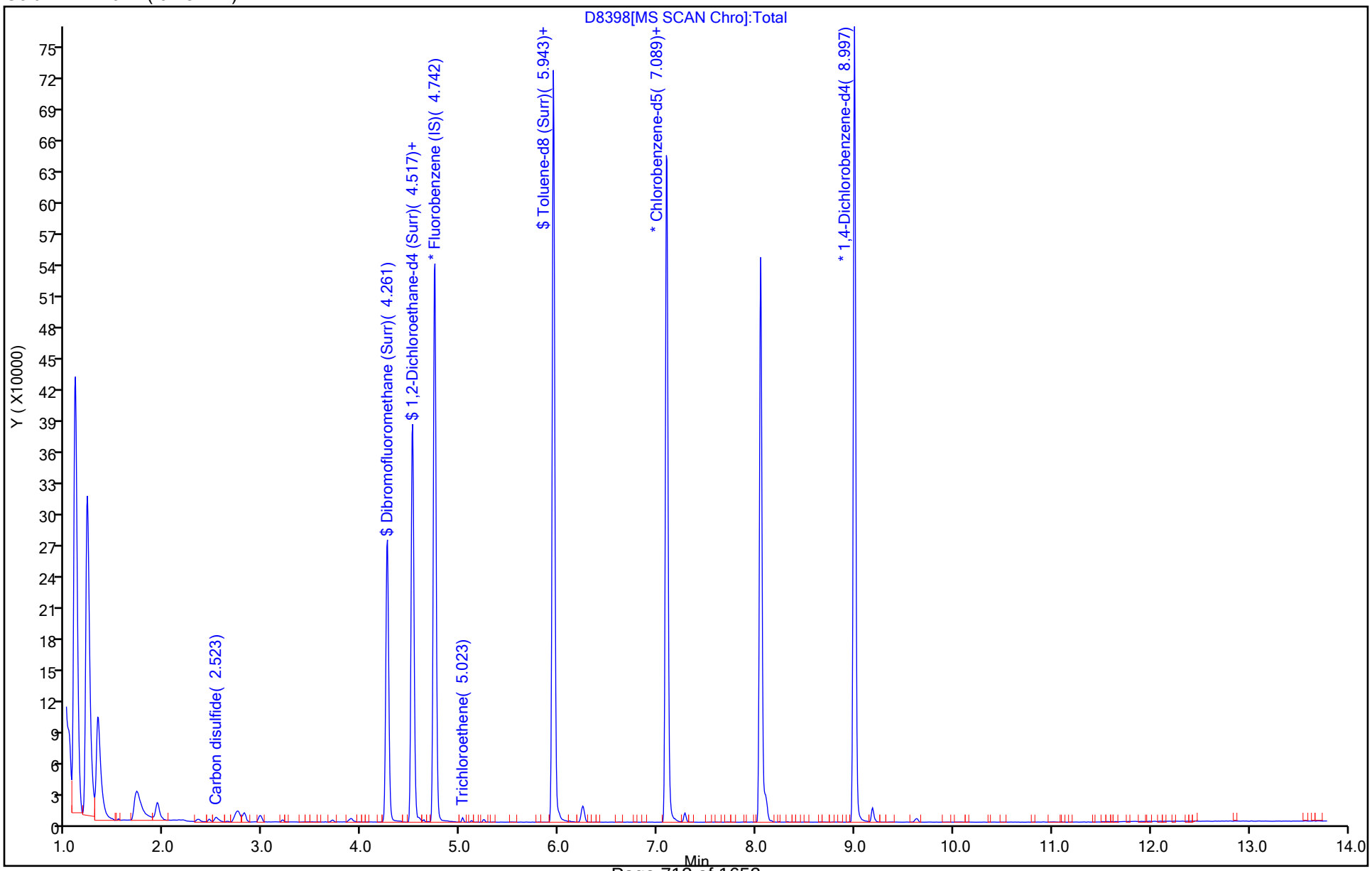
Report Date: 29-Oct-2024 14:12:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8398.d

Injection Date:	29-Oct-2024 10:26:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-45	Lab Sample ID:	480-224872-45	Worklist Smp#:	30
Client ID:	R-60-102424-DUP				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	63
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8398.d
Lims ID: 480-224872-A-45
Client ID: R-60-102424-DUP
Sample Type: Client
Inject. Date: 29-Oct-2024 10:26:30 ALS Bottle#: 63 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-45
Misc. Info.: 480-0120866-030
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:12:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.1	112.52
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.1	112.30
$ 5 Toluene-d8 (Surr)	25.0	24.5	97.97

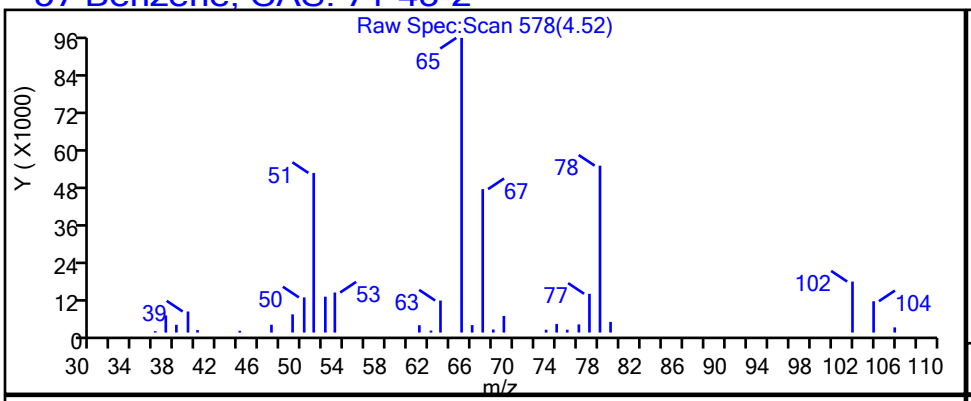
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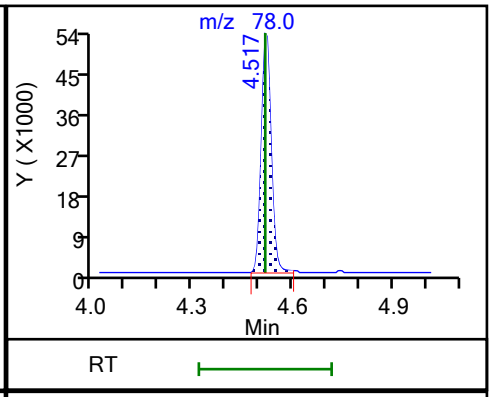
Eurofins Buffalo

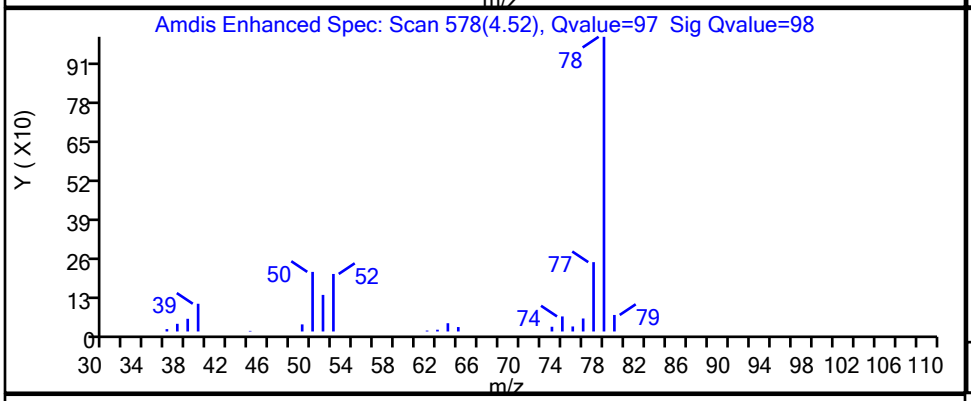
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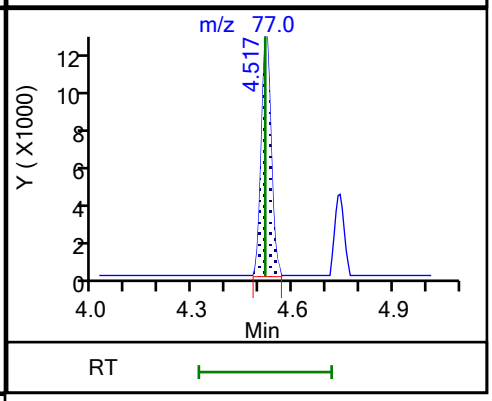
Injection Date:	29-Oct-2024 10:26:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-45	Lab Sample ID:	480-224872-45		
Client ID:	R-60-102424-DUP				
Operator ID:	AK	ALS Bottle#:	63	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

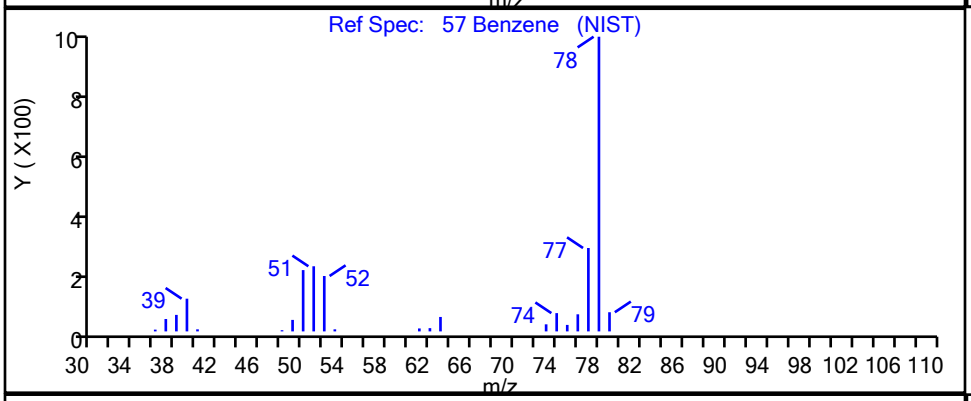
57 Benzene, CAS: 71-43-2

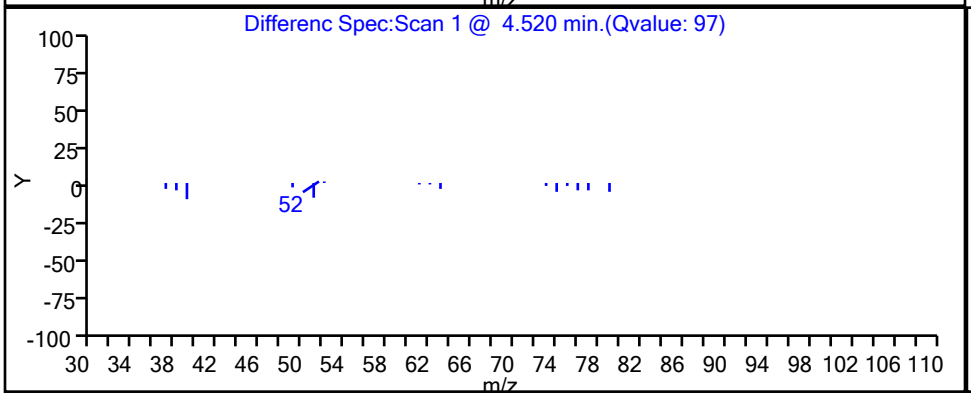


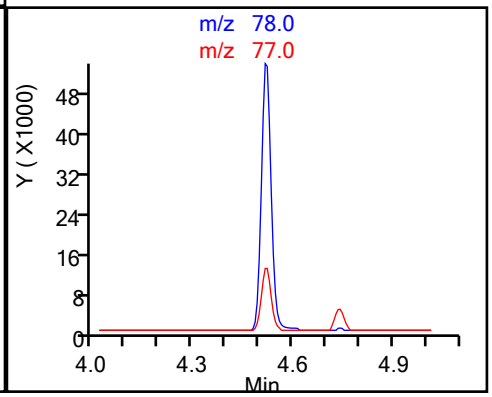












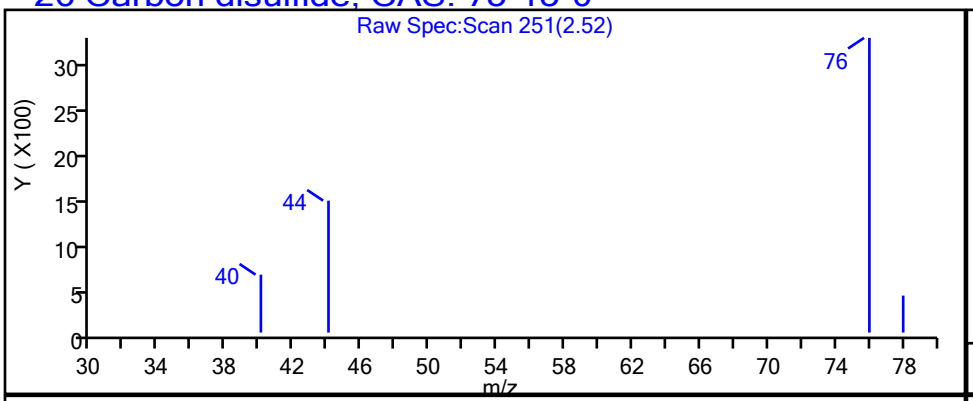
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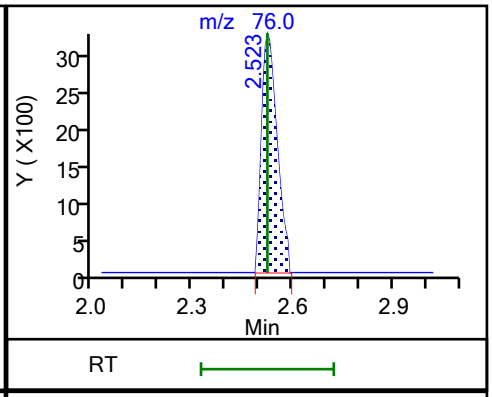
Eurofins Buffalo

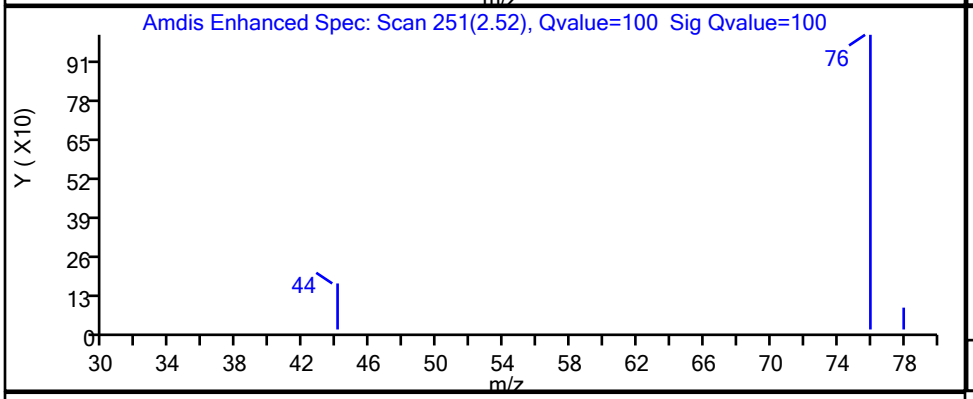
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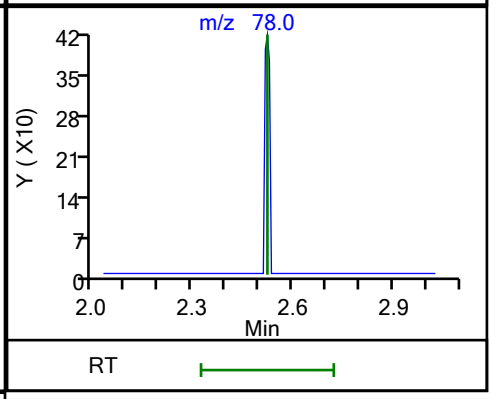
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Lims ID:	480-224872-A-45	Lab Sample ID:	480-224872-45		
Client ID:	R-60-102424-DUP				
Operator ID:	AK	ALS Bottle#:	63	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

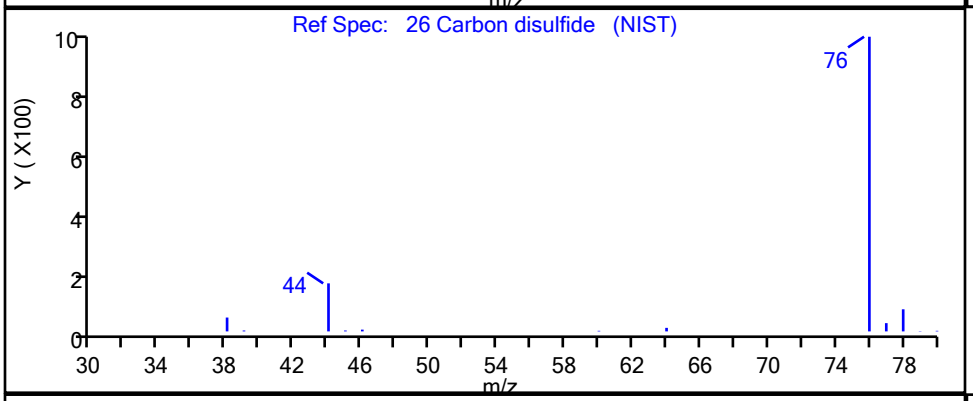
26 Carbon disulfide, CAS: 75-15-0

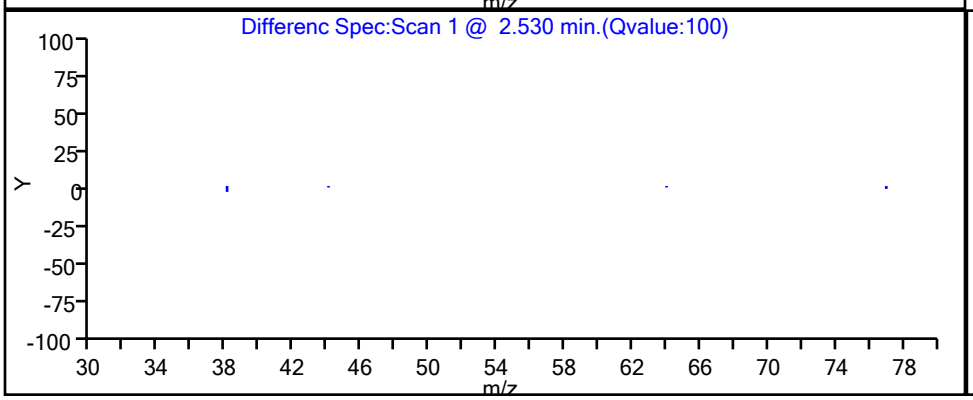


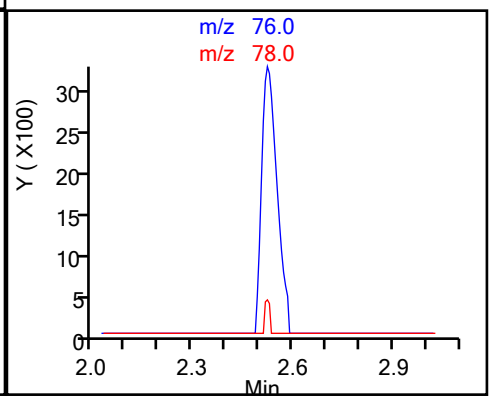












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: R-80-102424 | Lab Sample ID: 480-224872-46

Matrix: Water | Lab File ID: D8399.d

Analysis Method: 8260C | Date Collected: 10/24/2024 16:07

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 10:48

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	160		100	41
75-15-0	Carbon disulfide	5000		100	19
56-23-5	Carbon tetrachloride	27	U	100	27
108-90-7	Chlorobenzene	75	U	100	75
67-66-3	Chloroform	330		100	34
75-09-2	Methylene Chloride	44	U	100	44
127-18-4	Tetrachloroethene	36	U	100	36
108-88-3	Toluene	59	J	100	51
79-01-6	Trichloroethene	46	U	100	46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8399.d
Lims ID: 480-224872-A-46
Client ID: R-80-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 10:48:30 ALS Bottle#: 64 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-46
Misc. Info.: 480-0120866-031
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:13:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	94323	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	193962	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	224640	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	92	171645	28.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.510	0.001	99	97431	28.3	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	95	470405	25.1	
26 Carbon disulfide	76	2.523	2.523	0.000	100	707037	49.9	
30 Methylene Chloride	84	2.816	2.810	0.006	96	4649	0.1354	
50 Chloroform	83	4.133	4.126	0.007	95	29941	3.32	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78	4.523	4.517	0.006	97	26693	1.59	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92	5.998	5.992	0.006	98	6320	0.5916	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

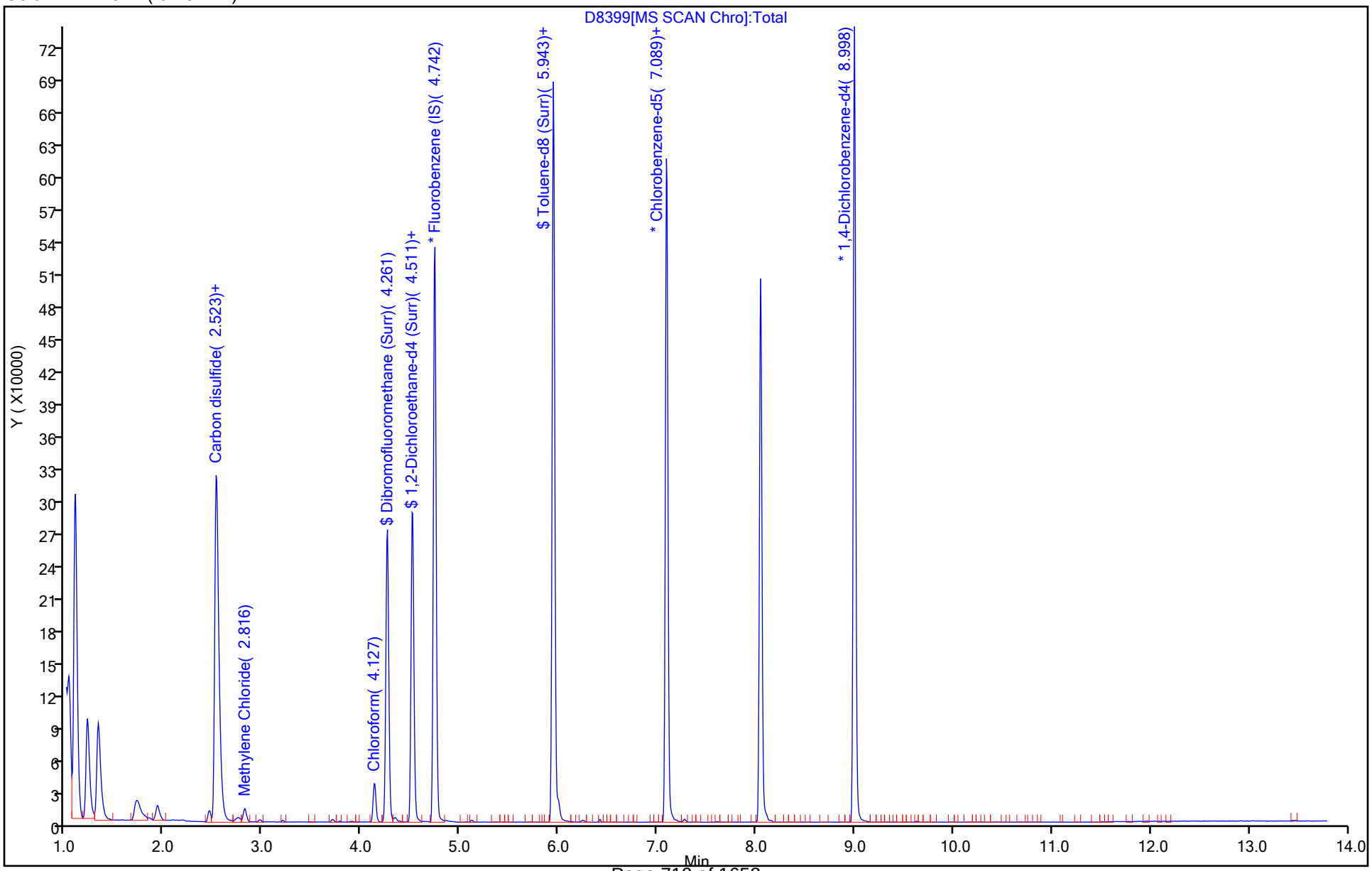
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8399.d

Injection Date:	29-Oct-2024 10:48:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-46	Lab Sample ID:	480-224872-46	Worklist Smp#:	31
Client ID:	R-80-102424				
Purge Vol:	5.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	64
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8399.d
Lims ID: 480-224872-A-46
Client ID: R-80-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 10:48:30 ALS Bottle#: 64 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 100.0000
Sample Info: 480-224872-A-46
Misc. Info.: 480-0120866-031
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:12:40 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:13:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.3	113.21
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.3	113.32
$ 5 Toluene-d8 (Surr)	25.0	25.1	100.52

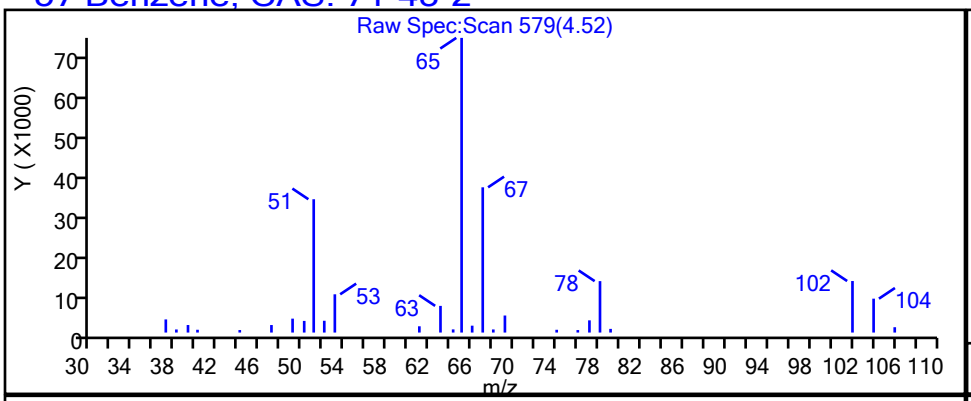
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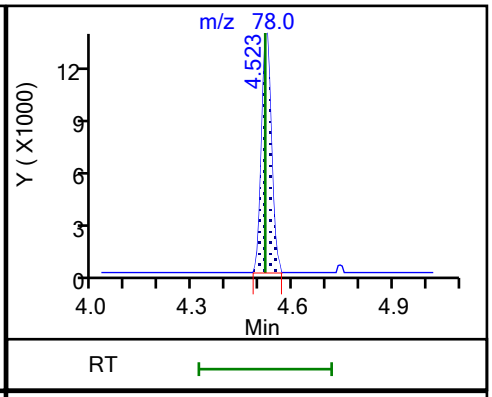
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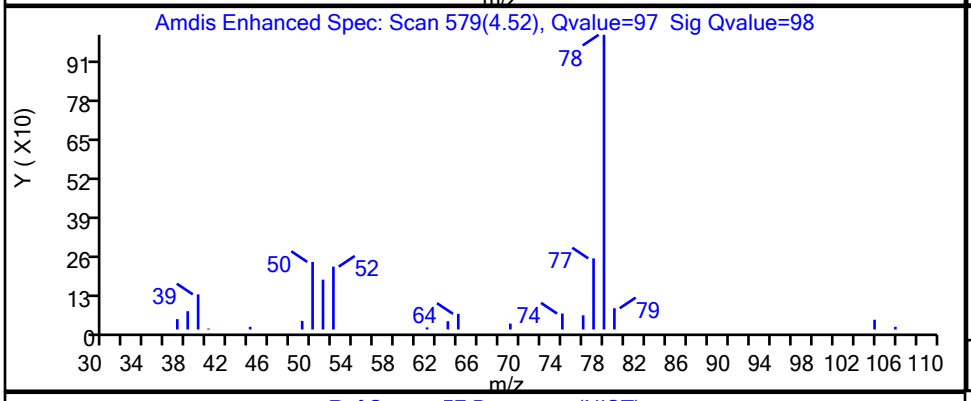
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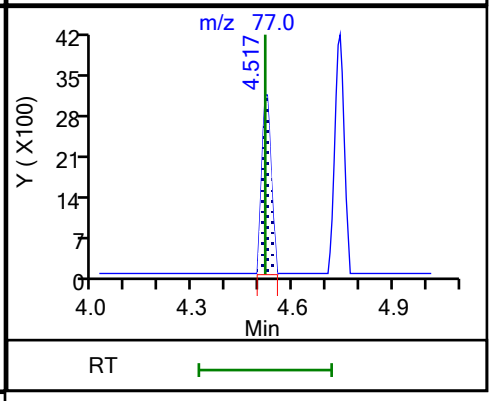
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Lims ID:	480-224872-A-46	Lab Sample ID:	480-224872-46
Client ID:	R-80-102424		
Operator ID:	AK	ALS Bottle#:	64 Worklist Smp#: 31
Purge Vol:	5.000 mL	Dil. Factor:	100.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

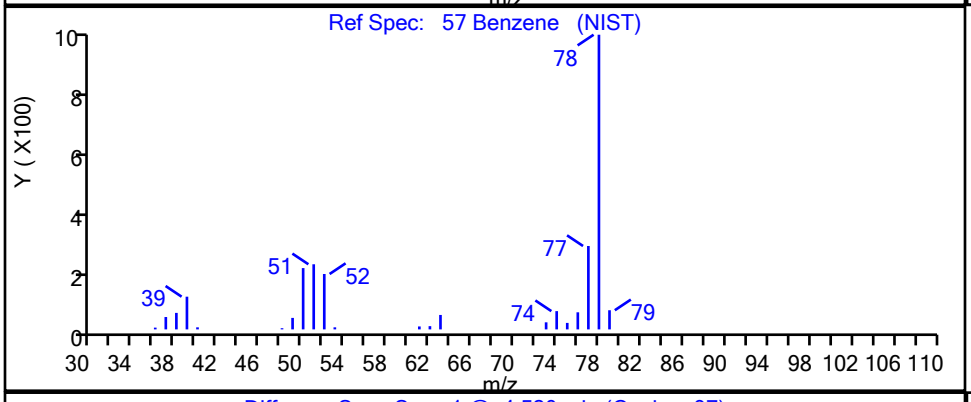
57 Benzene, CAS: 71-43-2

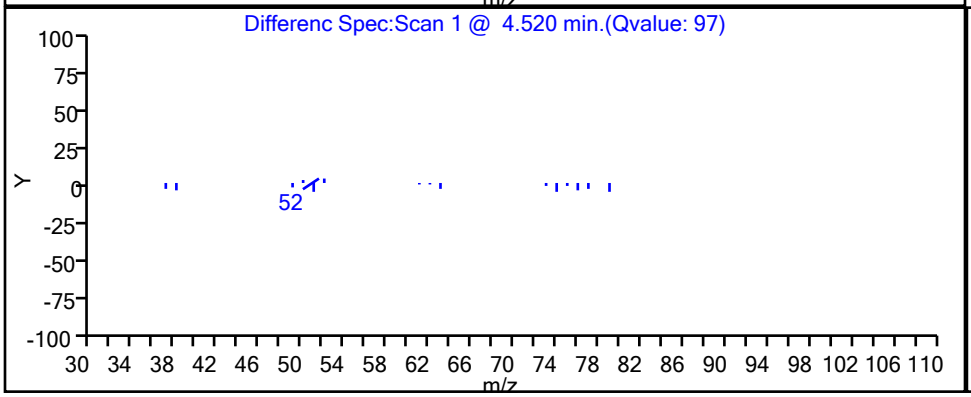


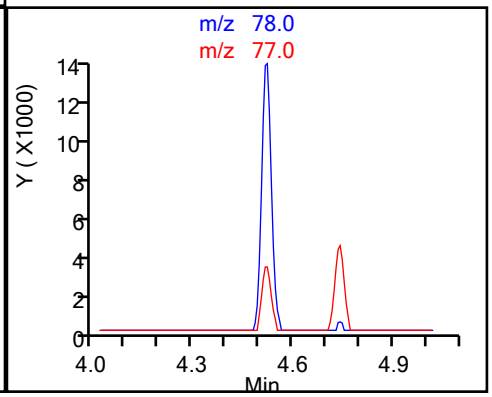












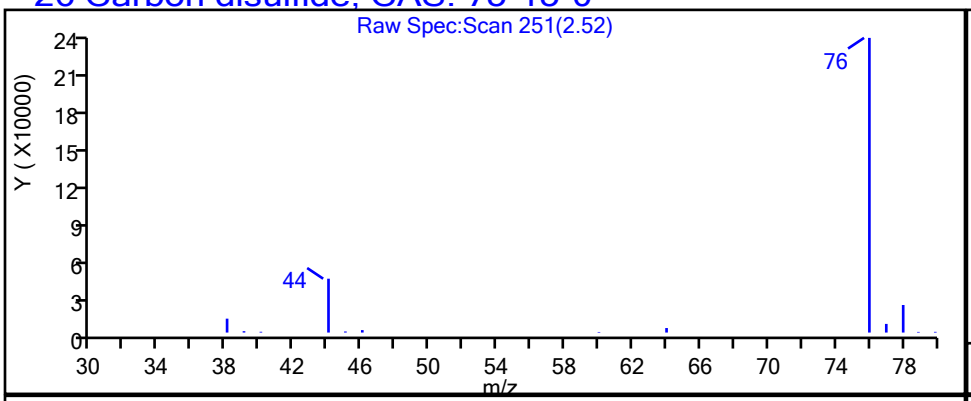
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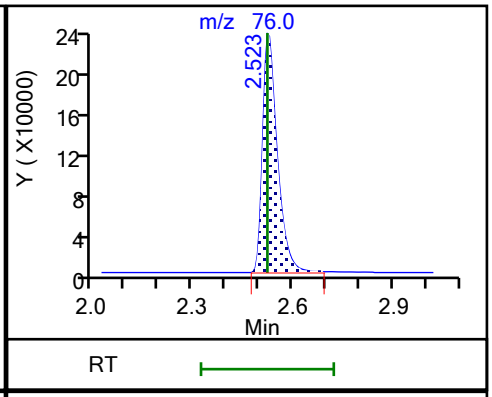
Eurofins Buffalo

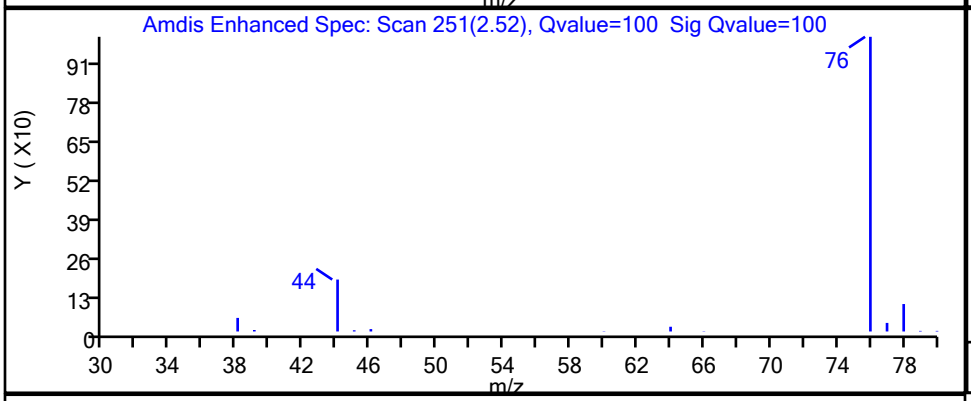
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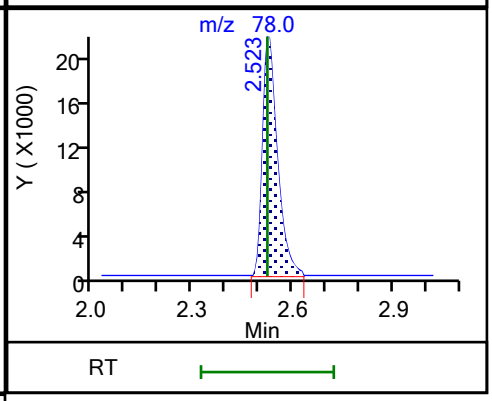
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Lims ID:	480-224872-A-46	Lab Sample ID:	480-224872-46		
Client ID:	R-80-102424				
Operator ID:	AK	ALS Bottle#:	64	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

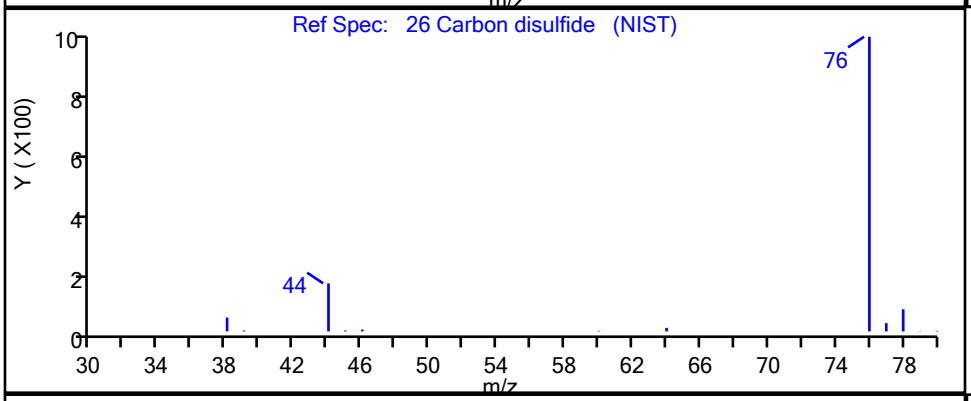
26 Carbon disulfide, CAS: 75-15-0

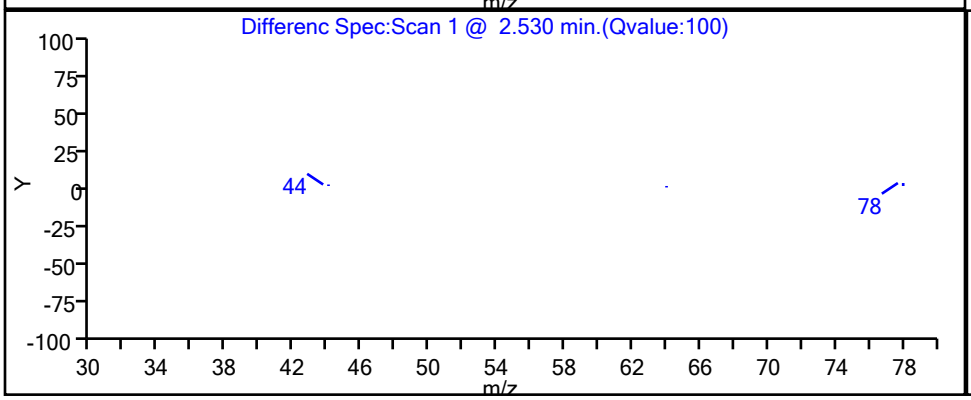


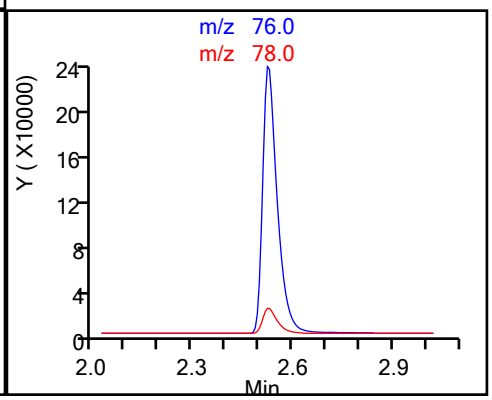












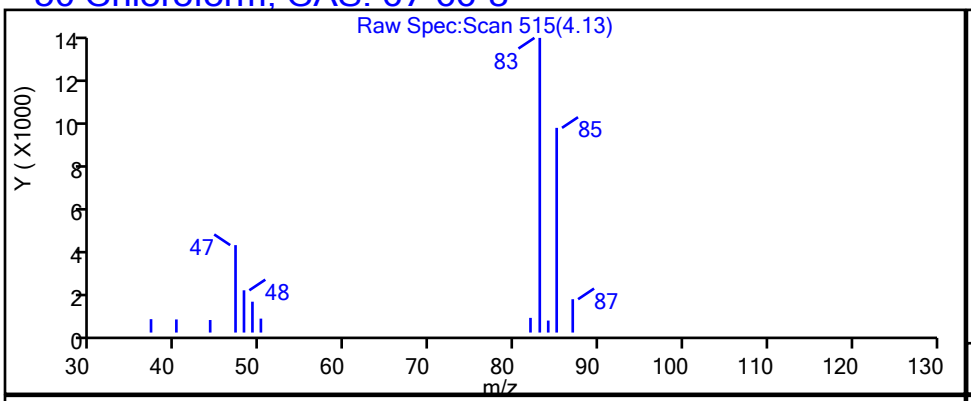
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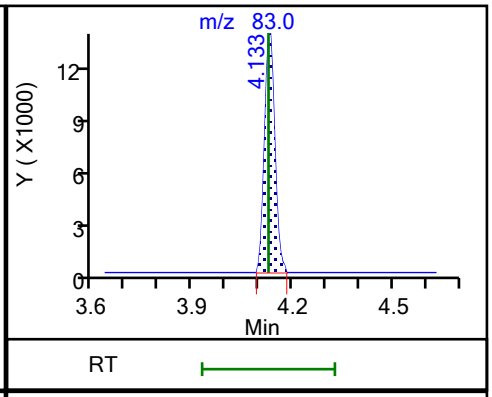
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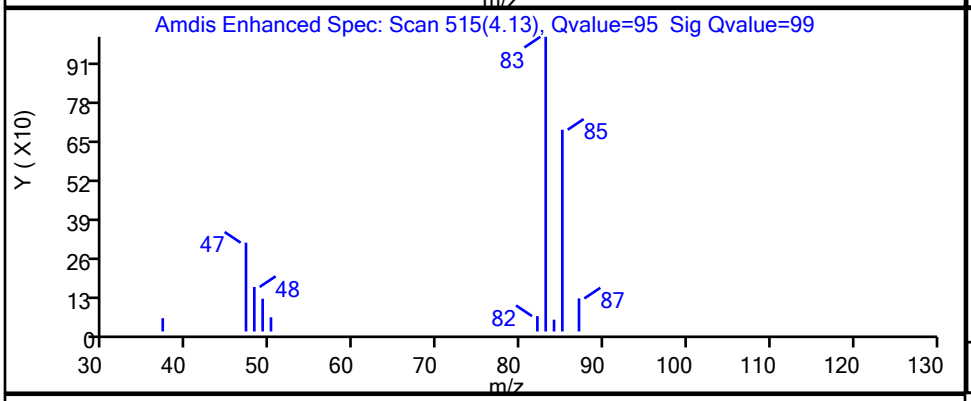
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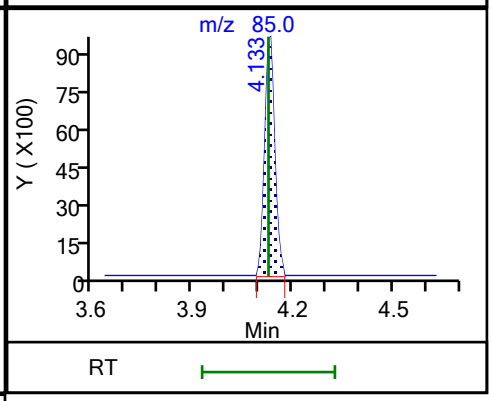
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Lims ID:	480-224872-A-46	Lab Sample ID:	480-224872-46		
Client ID:	R-80-102424				
Operator ID:	AK	ALS Bottle#:	64	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

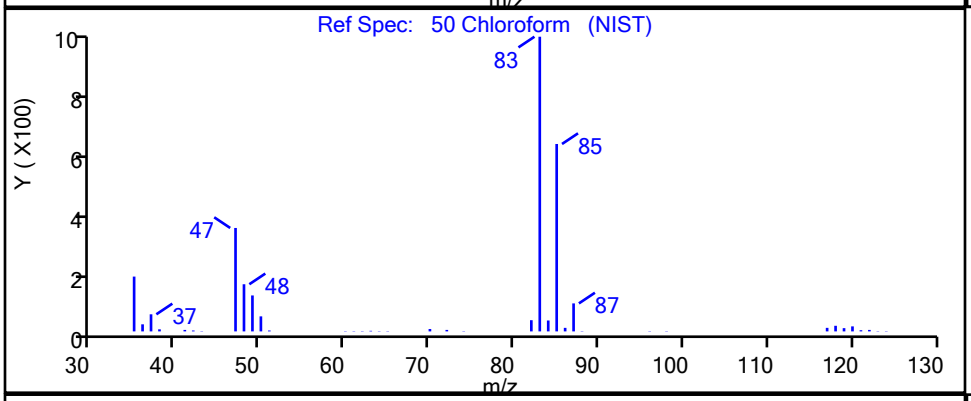
50 Chloroform, CAS: 67-66-3

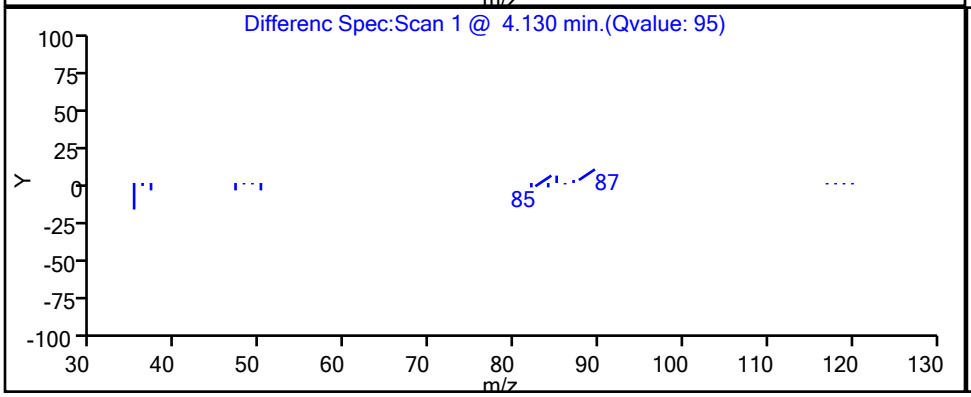


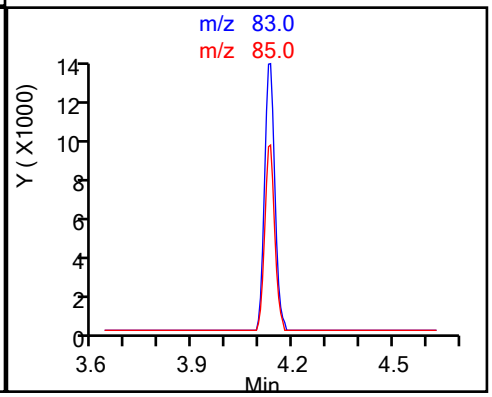












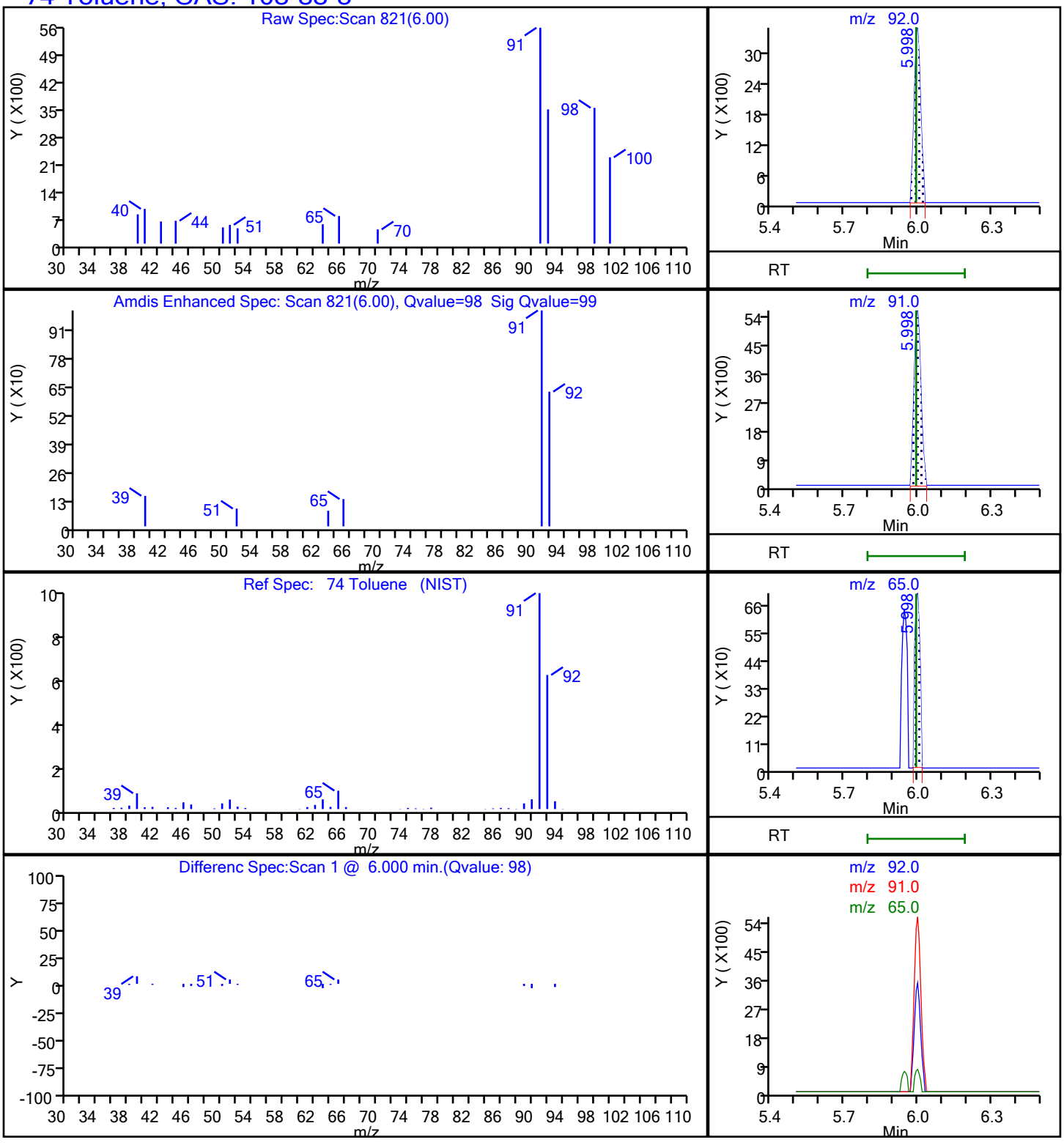
Report Date: 29-Oct-2024 14:13:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8399.d

Injection Date:	29-Oct-2024 10:48:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-A-46	Lab Sample ID:	480-224872-46		
Client ID:	R-80-102424				
Operator ID:	AK	ALS Bottle#:	64	Worklist Smp#:	31
Purge Vol:	5.000 mL	Dil. Factor:	100.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

74 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: IR-80-102424 | Lab Sample ID: 480-224872-47

Matrix: Water | Lab File ID: D8429.d

Analysis Method: 8260C | Date Collected: 10/24/2024 16:18

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 22:18

Soil Aliquot Vol: | Dilution Factor: 4

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	9.3		4.0	1.6
75-15-0	Carbon disulfide	170		4.0	0.76
56-23-5	Carbon tetrachloride	16		4.0	1.1
108-90-7	Chlorobenzene	3.0	U	4.0	3.0
67-66-3	Chloroform	170		4.0	1.4
75-09-2	Methylene Chloride	28		4.0	1.8
127-18-4	Tetrachloroethene	2.9	J	4.0	1.4
108-88-3	Toluene	6.2		4.0	2.0
79-01-6	Trichloroethene	1.8	U	4.0	1.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Report Date: 30-Oct-2024 10:42:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d
Lims ID: 480-224872-B-47
Client ID: IR-80-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 22:18:30 ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 480-224872-B-47
Misc. Info.: 480-0120894-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.742	0.000	98	94362	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	204623	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	233703	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.261	-0.001	92	176492	29.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	99	96169	28.0	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	485454	24.6	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	602910	42.5	
30 Methylene Chloride	84	2.816	2.822	-0.006	97	36962	7.08	
50 Chloroform	83	4.132	4.133	-0.001	94	375564	41.6	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	25339	3.88	
57 Benzene	78	4.523	4.523	0.000	97	39291	2.33	
62 Trichloroethene	95		5.023				ND	
74 Toluene	92	5.998	5.998	0.000	97	17531	1.56	
81 Tetrachloroethene	166	6.419	6.413	0.006	89	3882	0.7127	
87 Chlorobenzene	112		7.120				ND	

QC Flag Legend
Processing Flags

Reagents:
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

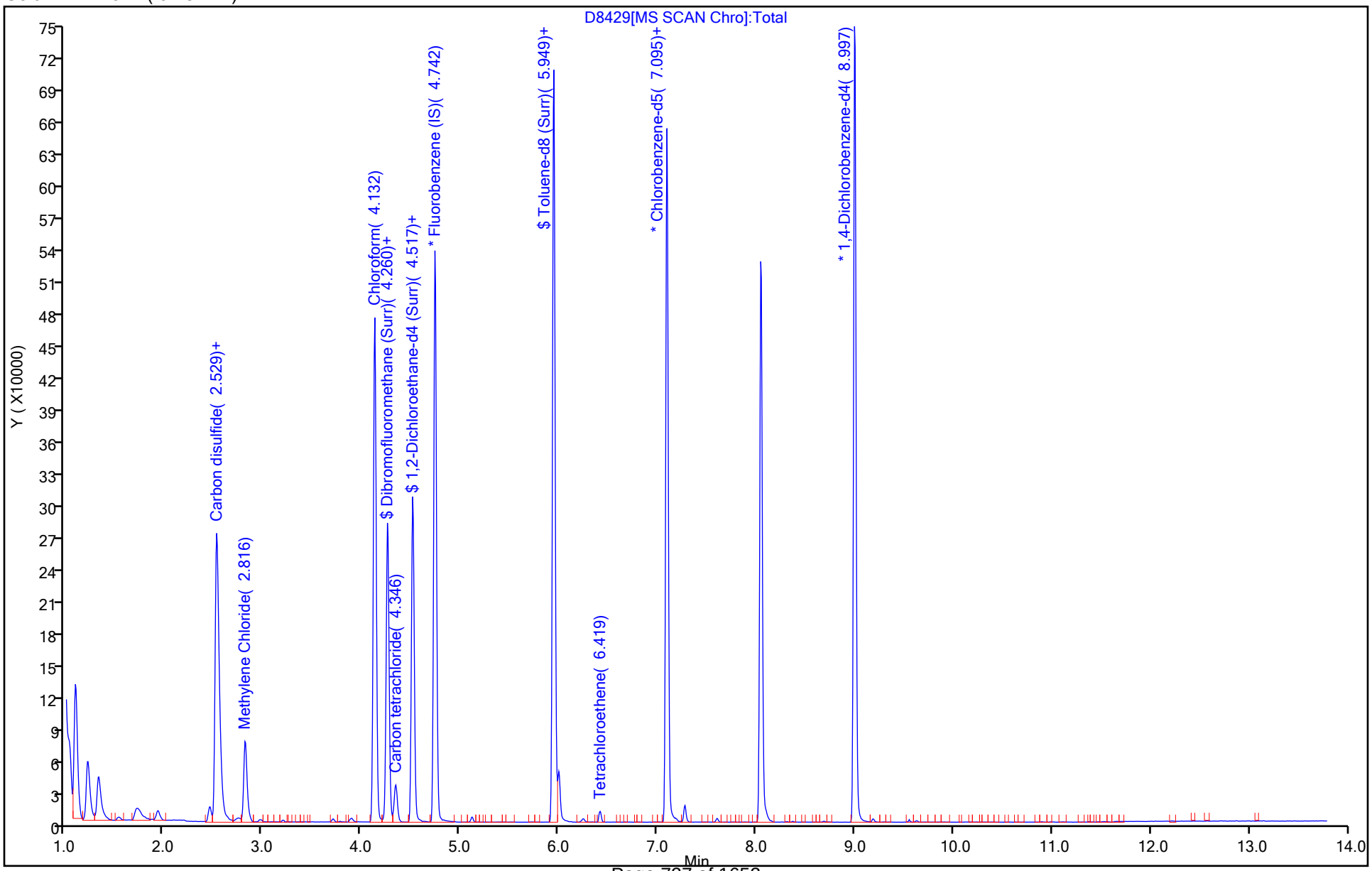
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d

Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47	Worklist Smp#:	27
Client ID:	IR-80-102424				
Purge Vol:	5.000 mL	Dil. Factor:	4.0000	ALS Bottle#:	25
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d
Lims ID: 480-224872-B-47
Client ID: IR-80-102424
Sample Type: Client
Inject. Date: 29-Oct-2024 22:18:30 ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 4.0000
Sample Info: 480-224872-B-47
Misc. Info.: 480-0120894-027
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:42:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.1	116.36
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.0	111.80
$ 5 Toluene-d8 (Surr)	25.0	24.6	98.34

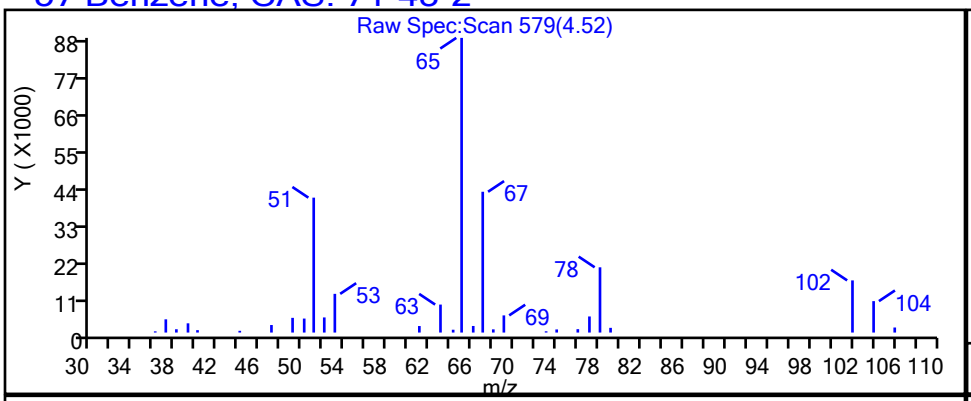
Report Date: 30-Oct-2024 10:42:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

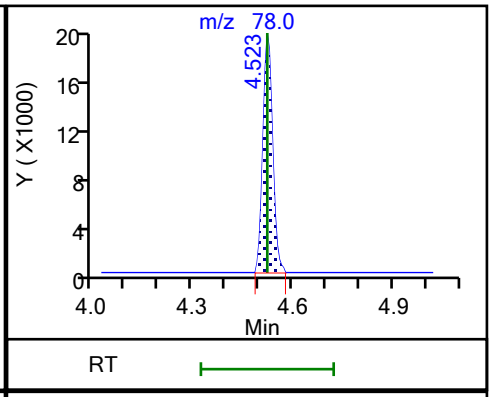
Eurofins Buffalo

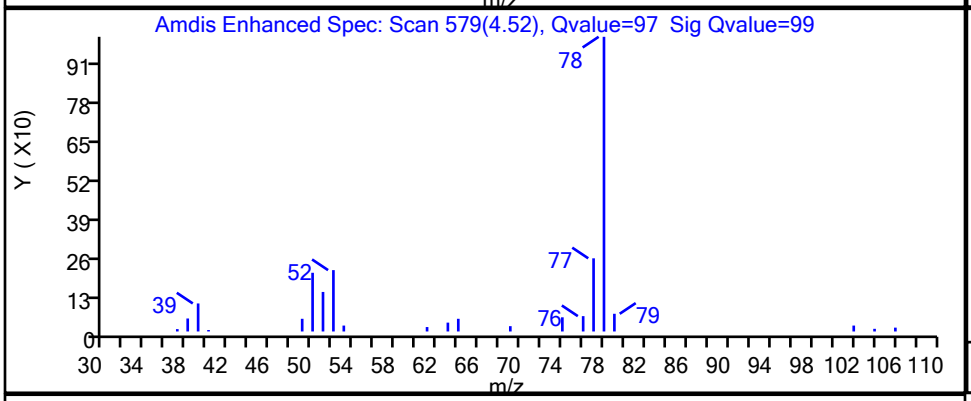
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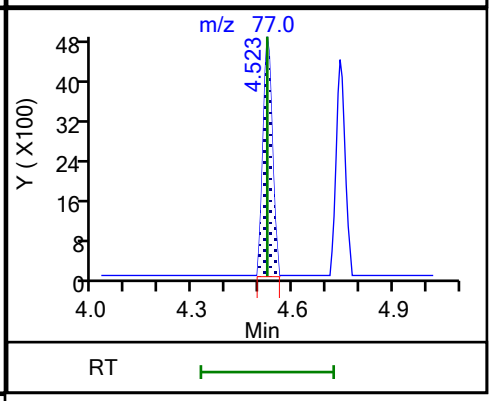
Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47
Client ID:	IR-80-102424		
Operator ID:	AK	ALS Bottle#:	25 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

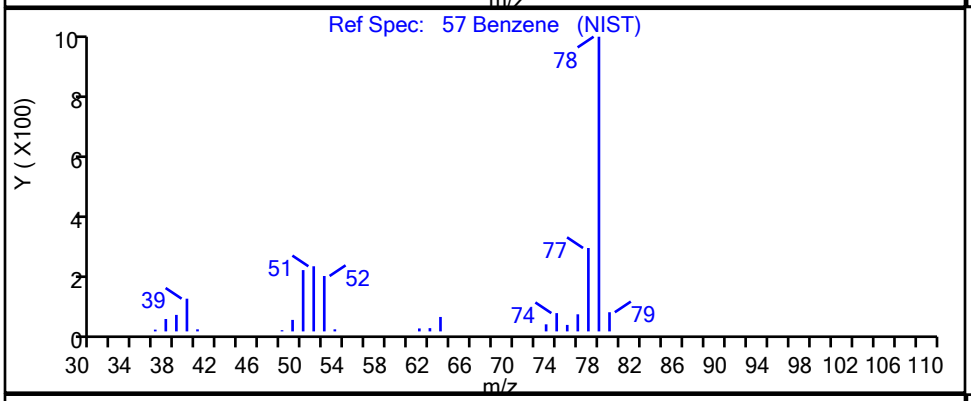
57 Benzene, CAS: 71-43-2

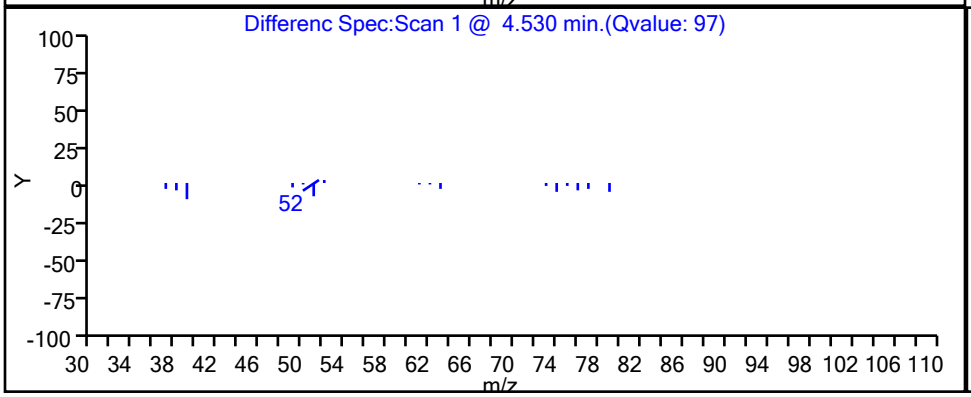


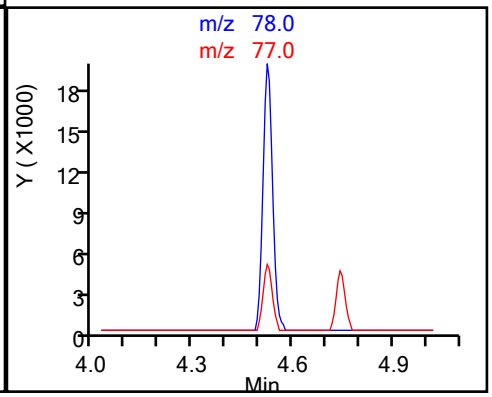












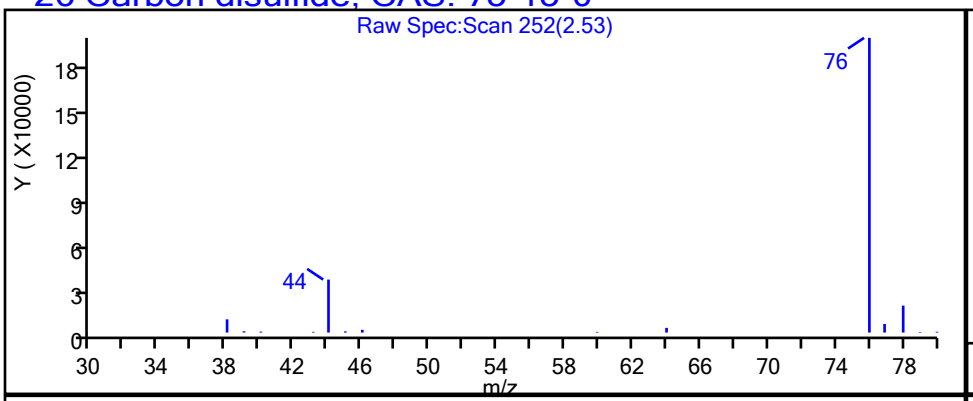
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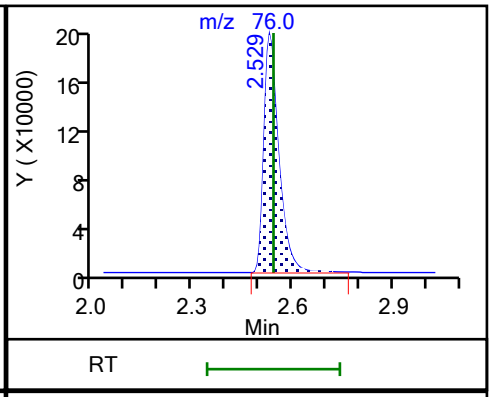
Eurofins Buffalo

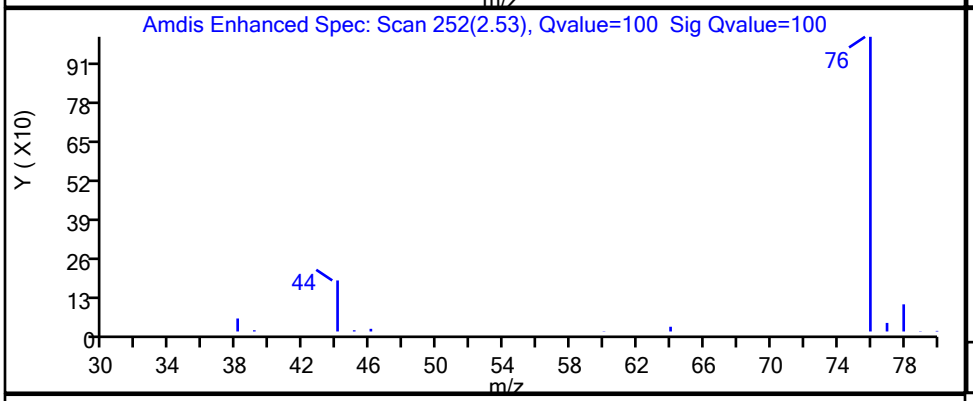
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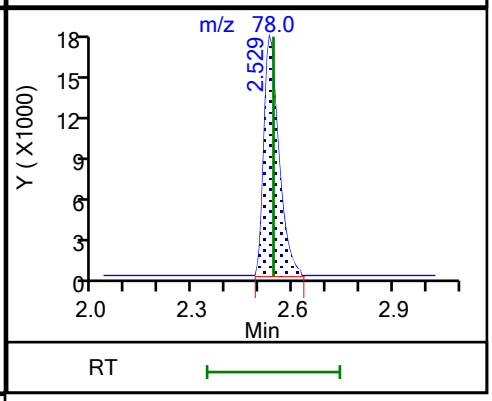
Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47		
Client ID:	IR-80-102424				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

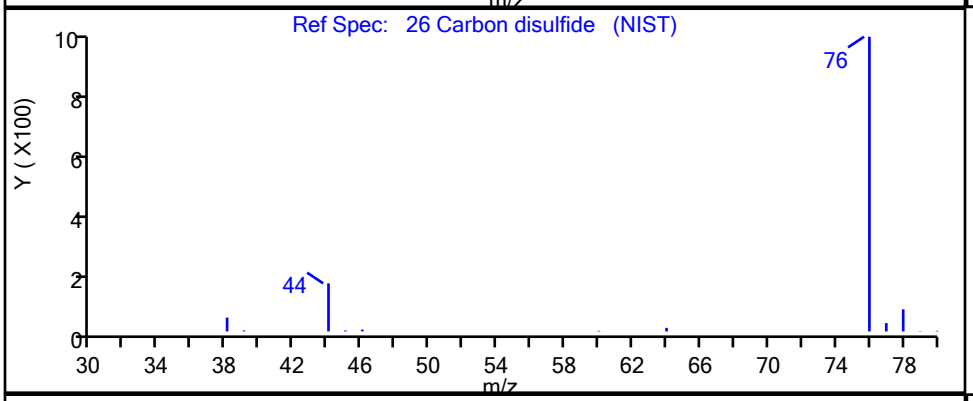
26 Carbon disulfide, CAS: 75-15-0

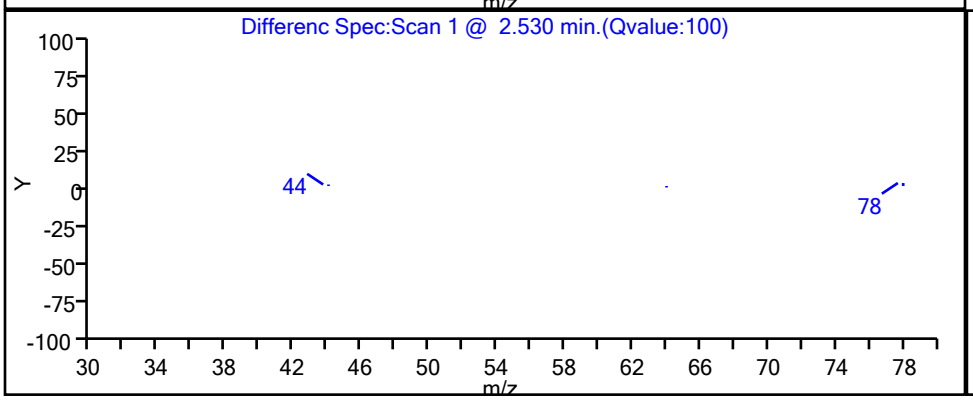


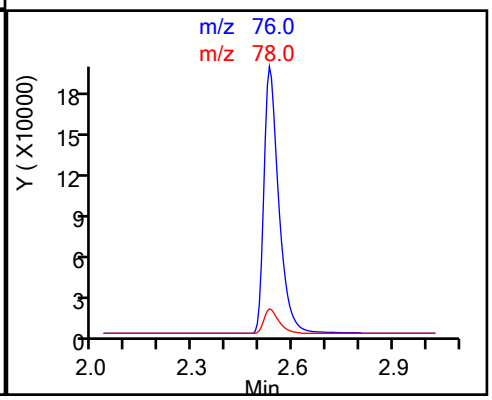












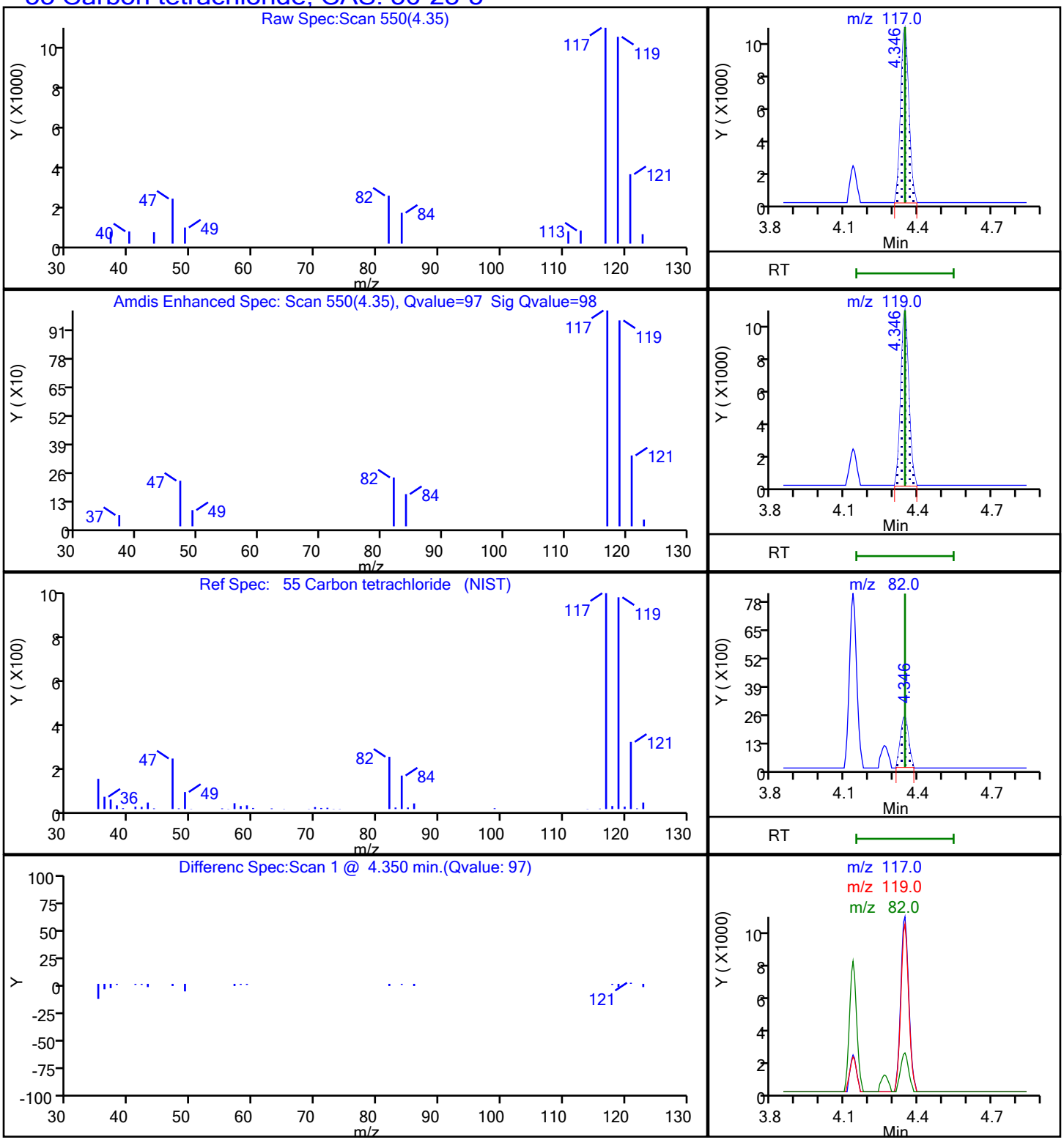
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d

Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47		
Client ID:	IR-80-102424				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

55 Carbon tetrachloride, CAS: 56-23-5



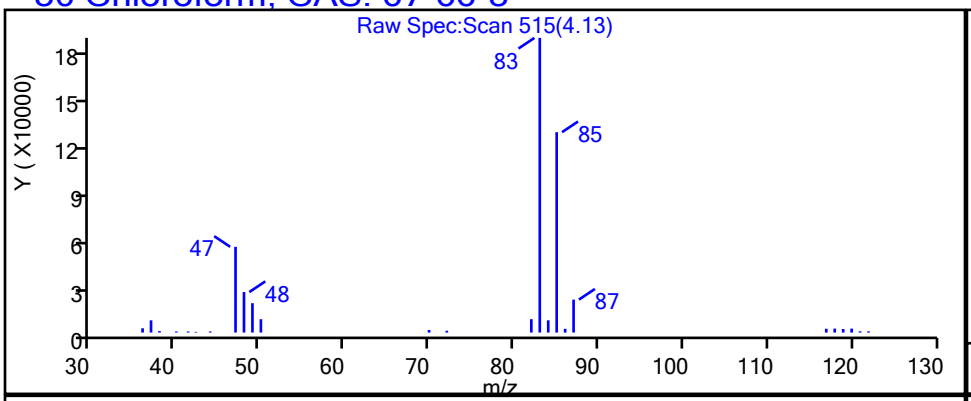
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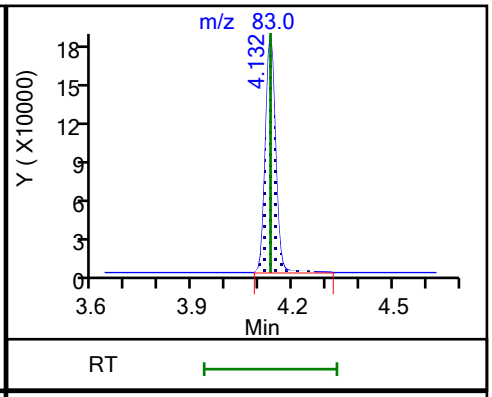
Eurofins Buffalo

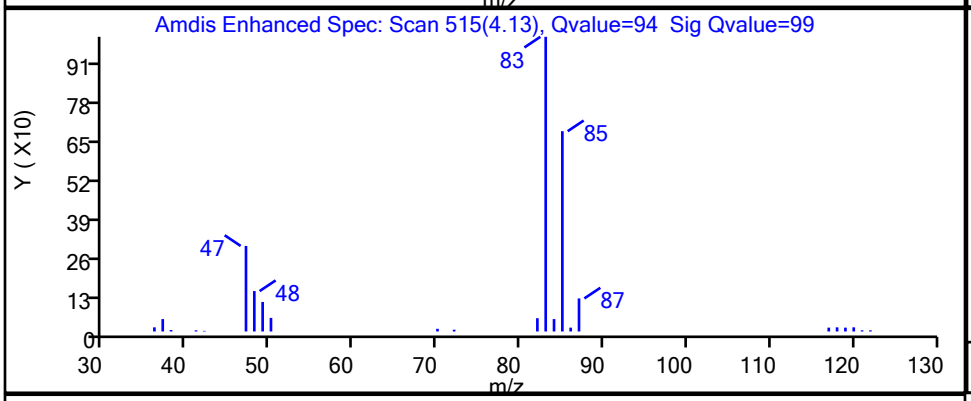
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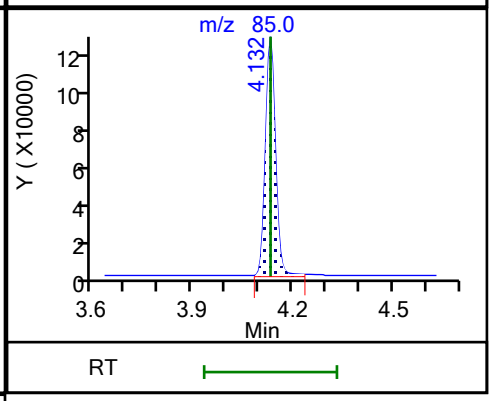
Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47		
Client ID:	IR-80-102424				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

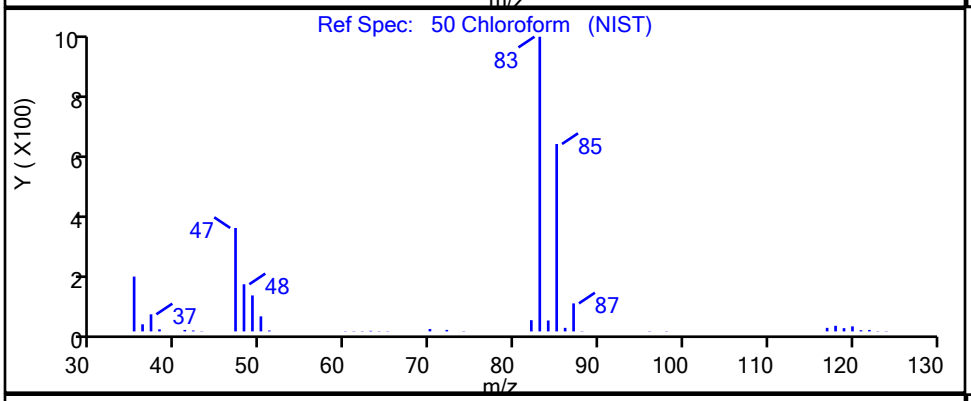
50 Chloroform, CAS: 67-66-3

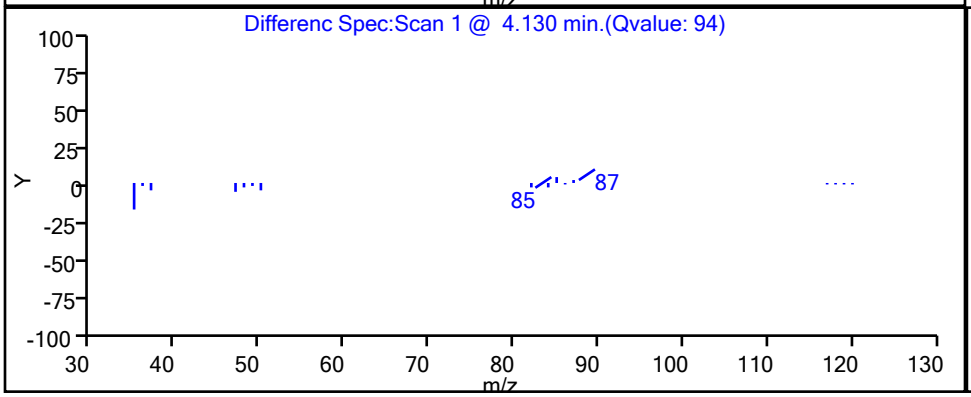


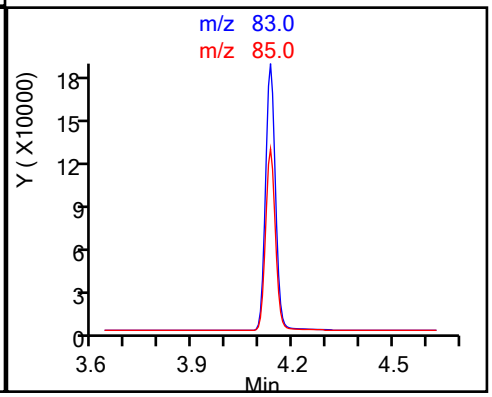












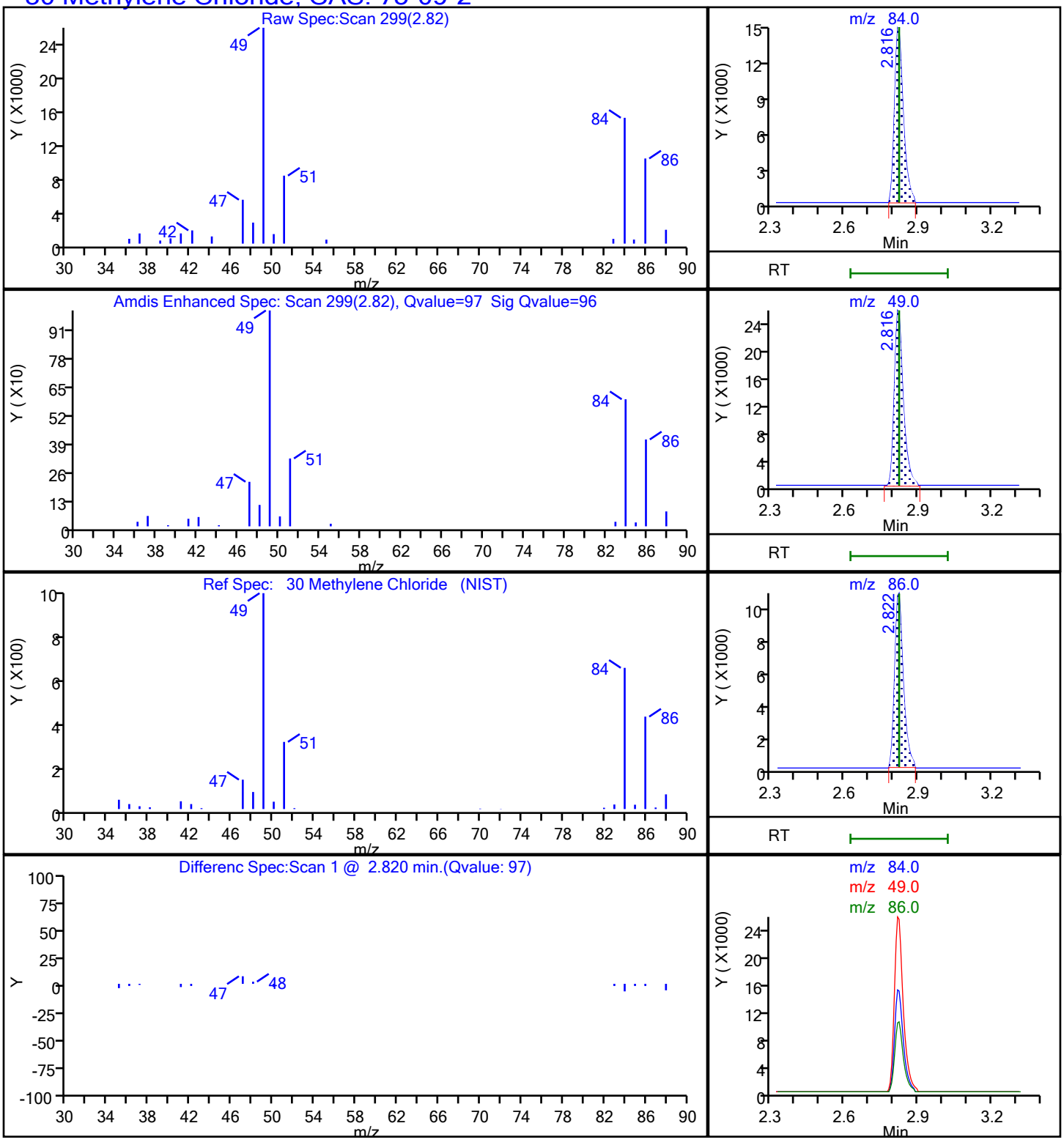
Report Date: 30-Oct-2024 10:42:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d

Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47
Client ID:	IR-80-102424		
Operator ID:	AK	ALS Bottle#:	25 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



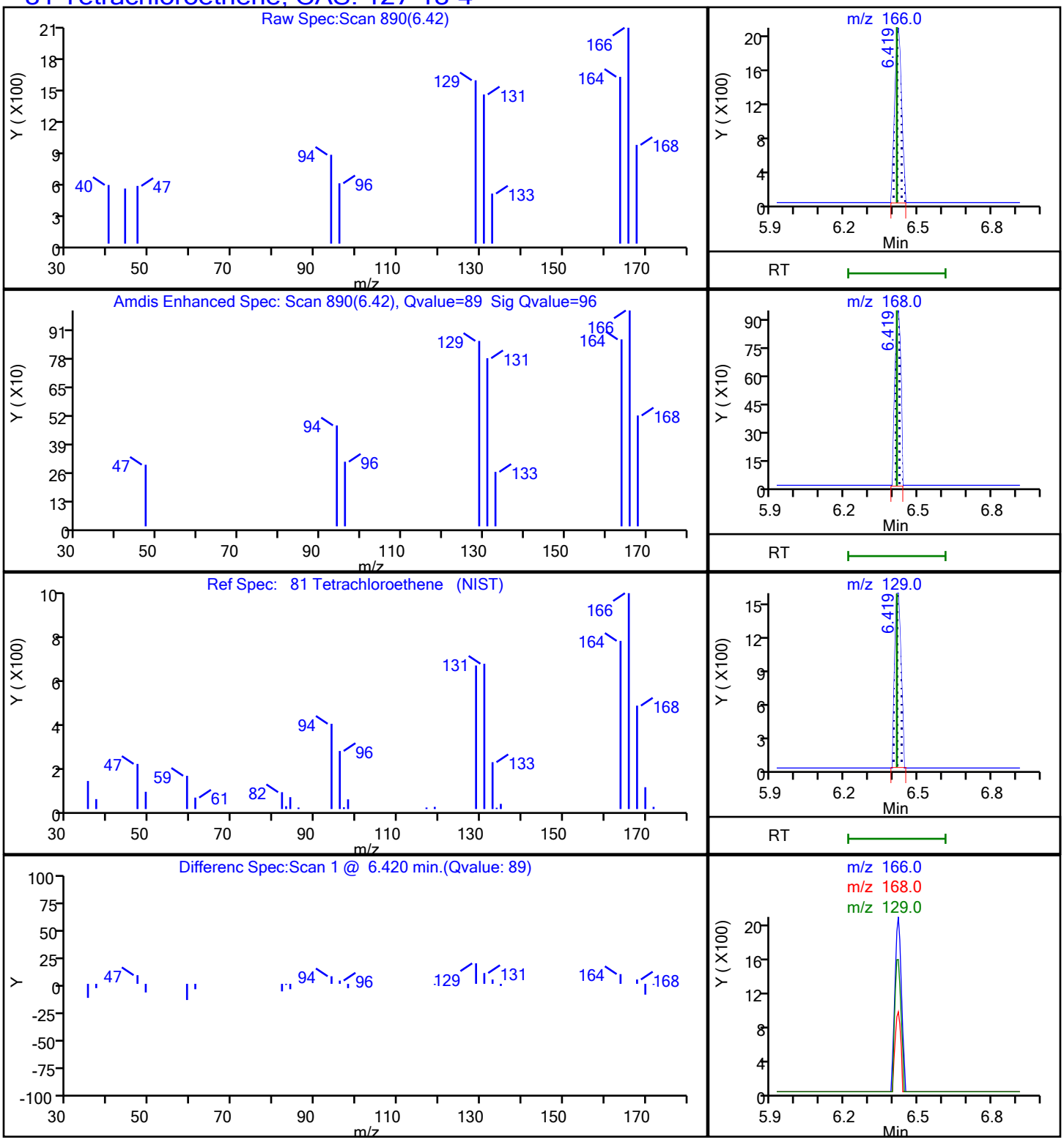
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d

Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D		
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47		
Client ID:	IR-80-102424				
Operator ID:	AK	ALS Bottle#:	25	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000		
Method:	D-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



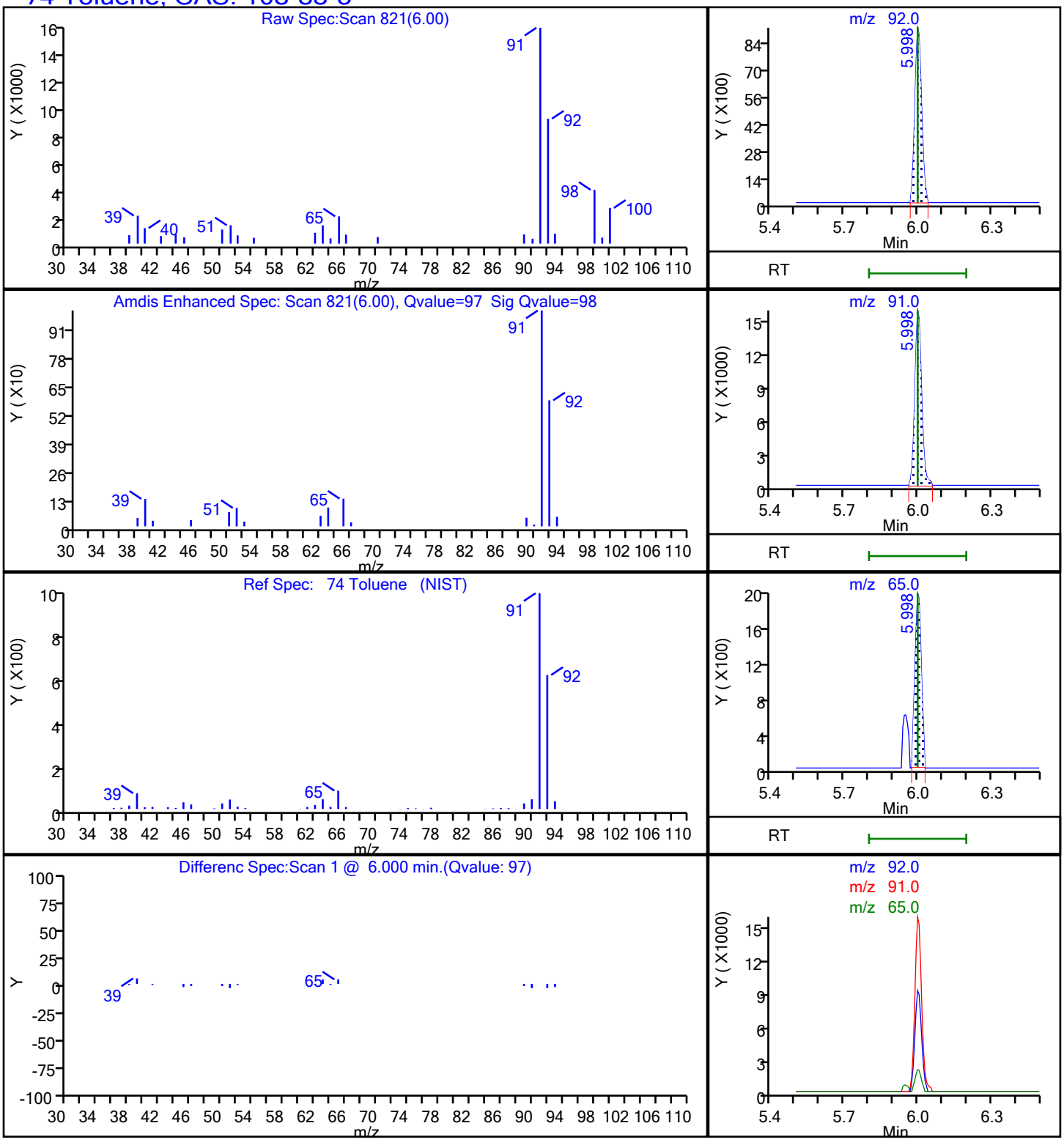
Report Date: 30-Oct-2024 10:42:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8429.d

Injection Date:	29-Oct-2024 22:18:30	Instrument ID:	HP5975D
Lims ID:	480-224872-B-47	Lab Sample ID:	480-224872-47
Client ID:	IR-80-102424		
Operator ID:	AK	ALS Bottle#:	25 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	4.0000
Method:	D-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

74 Toluene, CAS: 108-88-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: Trip Blank | Lab Sample ID: 480-224872-48

Matrix: Water | Lab File ID: D8401.d

Analysis Method: 8260C | Date Collected: 10/22/2024 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 11:33

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		77-120
1868-53-7	Dibromofluoromethane (Surr)	118		75-123
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8401.d
Lims ID: 480-224872-A-48
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 29-Oct-2024 11:33:30 ALS Bottle#: 66 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-48
Misc. Info.: 480-0120866-033
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:14:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	4.742	4.736	0.006	98	93285	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	202013	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	234283	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.006	92	177070	29.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	96686	28.4	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	484013	24.8	
26 Carbon disulfide	76		2.523				ND	U
30 Methylene Chloride	84		2.810				ND	7
50 Chloroform	83	4.132	4.126	0.006	88	2733	0.3063	
55 Carbon tetrachloride	117		4.340				ND	
57 Benzene	78		4.517				ND	
62 Trichloroethene	95		5.016				ND	
74 Toluene	92		5.992				ND	
81 Tetrachloroethene	166		6.413				ND	
87 Chlorobenzene	112		7.114				ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

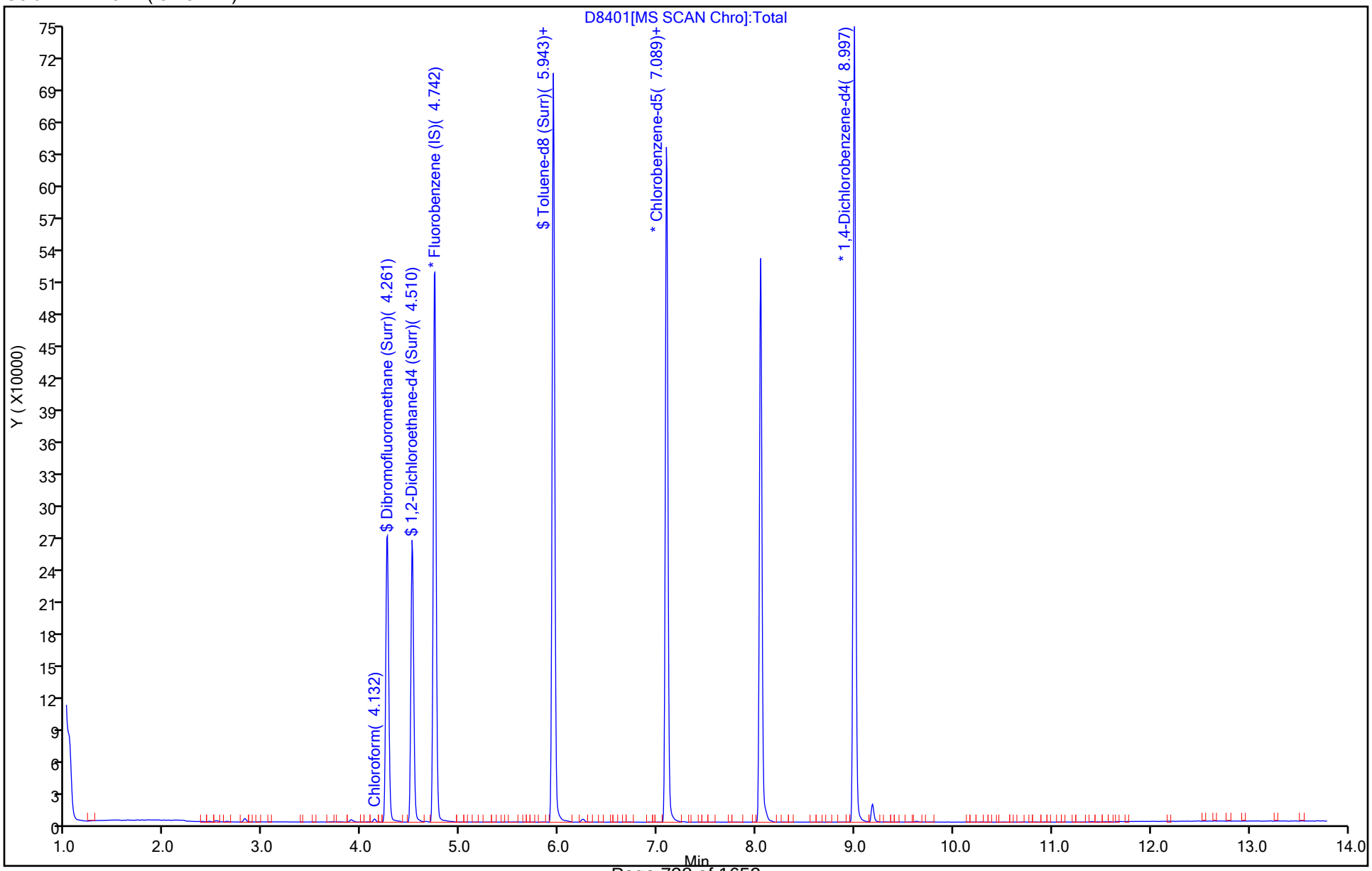
Report Date: 29-Oct-2024 14:14:00 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8401.d

Injection Date:	29-Oct-2024 11:33:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-48	Lab Sample ID:	480-224872-48	Worklist Smp#:	33
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	66
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8401.d
Lims ID: 480-224872-A-48
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 29-Oct-2024 11:33:30 ALS Bottle#: 66 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-48
Misc. Info.: 480-0120866-033
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:14:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	29.5	118.09
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	28.4	113.70
$ 5 Toluene-d8 (Surr)	25.0	24.8	99.31

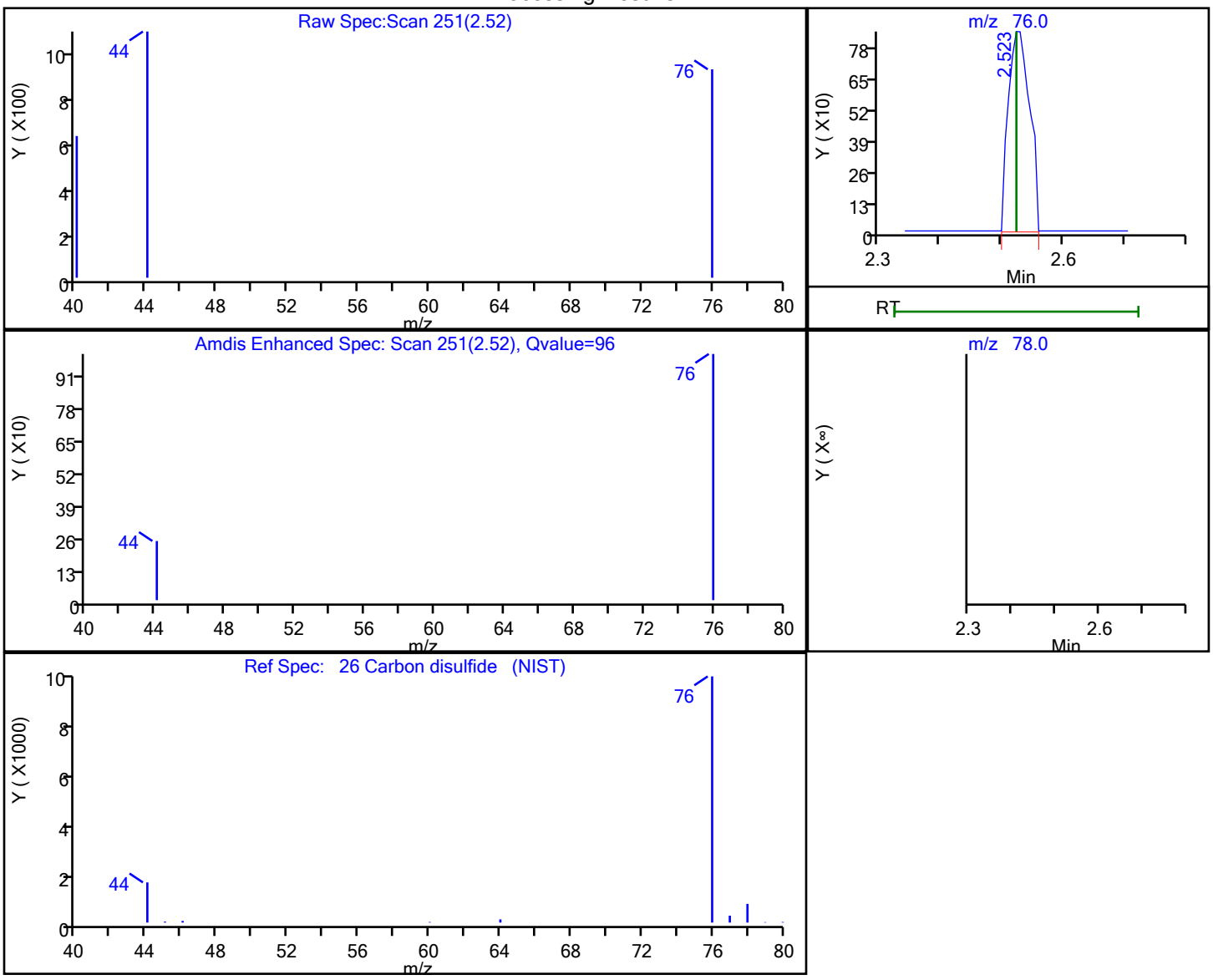
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8401.d
Injection Date: 29-Oct-2024 11:33:30 Instrument ID: HP5975D
Lims ID: 480-224872-A-48 Lab Sample ID: 480-224872-48
Client ID: Trip Blank
Operator ID: AK ALS Bottle#: 66 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.52	76.00	2061	0.147071
2.53	78.00	0	

Reviewer: R3QB, 29-Oct-2024 14:13:55 -04:00:00 (UTC)
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/47	D6858.d
Level 2	IC 480-725605/48	D6859.d
Level 3	IC 480-725605/49	D6860.d
Level 4	IC 480-725605/16	D6837.d
Level 5	IC 480-725605/17	D6838.d
Level 6	ICIS 480-725605/18	D6839.d
Level 7	IC 480-725605/19	D6840.d
Level 8	IC 480-725605/20	D6841.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	+++++ 2.0434	2.1228 2.0777	1.9224 2.1580	1.6879	2.0678	Ave		2.0114			0.1000	8.0		20.0			
Chloromethane	2.8540 2.1702	2.2514 2.1337	2.0598 2.1953	1.9915	2.2191	Ave		2.2344			0.1000	11.8		20.0			
Vinyl chloride	1.5956 1.3600	1.4597 1.3758	1.2841 1.4033	1.1692	1.3573	Ave		1.3756			0.1000	9.0		20.0			
Butadiene	+++++ 1.3299	1.5687 1.3469	1.4227 1.3832	1.1585	1.3527	Ave		1.3661				8.9		20.0			
Bromomethane	+++++ 1.0212	1.2379 0.9971	0.9465 1.0280	1.0021	1.0533	Ave		1.0409			0.1000	8.9		20.0			
Chloroethane	0.7824 0.6799	0.7638 0.6590	0.6553 0.6824	0.6163	0.6950	Ave		0.6918			0.1000	8.1		20.0			
Dichlorofluoromethane	2.5503 2.2444	2.3443 2.1576	2.1032 2.1911	2.0653	2.2908	Ave		2.2434				6.9		20.0			
Trichlorofluoromethane	2.0703 1.7829	1.8972 1.7946	1.7453 1.8068	1.5064	1.8137	Ave		1.8021			0.1000	8.7		20.0			
Ethyl ether	0.8951 0.8867	0.9888 0.8791	0.8443 0.8691	0.8275	0.9013	Ave		0.8865				5.5		20.0			
Acrolein	0.1323 0.1461	0.1330 0.1465	0.1319 0.1512	0.1451	0.1544	Ave		0.1426				6.3		20.0			
1,1-Dichloroethene	0.9230 1.0390	1.0663 1.0807	1.1126 1.0941	0.9001	1.0278	Ave		1.0304			0.1000	7.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1172 1.1522	1.2036 1.1892	1.2396 1.2063	0.9736	1.1273	Ave		1.1511			0.1000	7.2		20.0			
Acetone	0.5863 0.5209	0.4843 0.4972	0.5210 0.5167	0.5454	0.5608	Ave		0.5291			0.1000	6.3		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
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	2.4750 2.5099	2.4773 2.5037	2.5868 2.5314	2.3448	2.5430	Ave		2.4965				2.9		20.0			
Carbon disulfide	3.8248 3.7281	3.7746 3.8748	3.9644 3.9643	3.2125	3.7012	Ave		3.7556			0.1000	6.4		20.0			
Allyl chloride	2.2771 2.2977	2.2118 2.3269	2.2959 2.3732	2.0869	2.3122	Ave		2.2727				3.9		20.0			
Methyl acetate	1.2945 1.3457	1.3371 1.2930	1.2984 1.3583	1.3929	1.4087	Ave		1.3411			0.1000	3.3		20.0			
Methylene Chloride	3.9467 1.2717	2.2720 1.2452	1.8082 1.2496	1.3553	1.3694	Lin1	1.0653	1.2329			0.1000	4.0			1.0000		0.9900
2-Methyl-2-propanol	0.1626 0.1716	0.1119 0.1709	0.1558 0.1848	0.1694	0.1839	Ave		0.1639				14.1		20.0			
Methyl tert-butyl ether	3.2531 3.3027	3.1920 3.2947	3.2342 3.2774	3.2071	3.3926	Ave		3.2692			0.1000	1.9		20.0			
trans-1,2-Dichloroethene	1.1687 1.1671	1.1684 1.1908	1.2459 1.1777	1.0804	1.2080	Ave		1.1759			0.1000	4.0		20.0			
Acrylonitrile	0.5958 0.6000	0.5859 0.5803	0.5671 0.5878	0.6163	0.6434	Ave		0.5971				4.0		20.0			
Hexane	1.9511 1.6686	1.9652 1.8055	1.8498 1.8213	1.4519	1.6887	Ave		1.7753				9.5		20.0			
1,1-Dichloroethane	2.5140 2.3517	2.3776 2.3545	2.4325 2.3485	2.2860	2.4290	Ave		2.3867			0.2000	2.9		20.0			
Vinyl acetate	2.5774 3.3995	2.5509 3.4358	2.7178 3.4920	3.2203	3.4516	Ave		3.1057				13.4		20.0			
2,2-Dichloropropane	1.2424 1.2774	1.3854 1.2932	1.3474 1.2452	1.2044	1.3042	Ave		1.2875				4.6		20.0			
cis-1,2-Dichloroethene	1.3754 1.3271	1.3238 1.3164	1.3483 1.3144	1.2276	1.3509	Ave		1.3230			0.1000	3.3		20.0			
2-Butanone (MEK)	0.7493 0.8392	0.7230 0.8331	0.7713 0.8565	0.7950	0.8889	Ave		0.8070			0.1000	7.1		20.0			
Chlorobromomethane	0.7654 0.7784	0.7407 0.7736	0.7780 0.7582	0.7512	0.8119	Ave		0.7697				2.8		20.0			
Tetrahydrofuran	0.6604 0.5599	0.5694 0.5491	0.5778 0.5546	0.5724	0.6057	Ave		0.5811				6.3		20.0			
Chloroform	+++++ 2.2679	2.7298 2.2516	2.5733 2.2283	2.2831	2.4071	Ave		2.3916			0.2000	8.0		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.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	1.7496 1.8320	1.8718 1.8719	1.9403 1.8753	1.6458	1.8967	Ave		1.8354			0.1000	5.1		20.0			
Cyclohexane	2.2332 2.0963	2.2727 2.2227	2.2976 2.2380	1.7988	2.0828	Ave		2.1552			0.1000	7.6		20.0			
Carbon tetrachloride	1.7057 1.7026	1.7783 1.7700	1.7428 1.8312	1.5570	1.7673	Ave		1.7319			0.1000	4.7		20.0			
1,1-Dichloropropene	1.6035 1.5312	1.6618 1.6055	1.7020 1.6168	1.3773	1.5631	Ave		1.5826				6.2		20.0			
Benzene	4.8166 4.2801	4.5016 4.3860	4.6102 4.3296	4.2052	4.5603	Ave		4.4612			0.5000	4.5		20.0			
Isobutyl alcohol	0.0811 0.0809	0.0593 0.0825	0.0734 0.0882	0.0821	0.0878	Ave		0.0794				11.7		20.0			
1,2-Dichloroethane	2.0150 1.8665	1.9490 1.8936	1.8938 1.8296	1.9326	2.0700	Ave		1.9313			0.1000	4.1		20.0			
n-Heptane	2.6244 2.0159	2.5507 2.1995	2.1349 2.1650	1.7708	2.0288	Ave		2.1862				12.9		20.0			
Trichloroethene	1.3617 1.2312	1.2668 1.2825	1.3239 1.2941	1.1639	1.2954	Ave		1.2774			0.2000	4.7		20.0			
Methylcyclohexane	1.7555 1.6917	1.7705 1.8000	1.8400 1.8332	1.3918	1.6625	Ave		1.7182			0.1000	8.5		20.0			
1,2-Dichloropropane	1.2529 1.2882	1.2253 1.3140	1.3256 1.3302	1.2228	1.3552	Ave		1.2893			0.1000	3.9		20.0			
Dibromomethane	0.8201 0.9433	0.8882 0.9413	0.8790 0.9605	0.9377	1.0073	Ave		0.9222			0.1000	6.2		20.0			
1,4-Dioxane	+++++ 0.0055	+++++ 0.0057	0.0034 0.0059	0.0049	0.0062	Lin1	-0.090	0.0059				7.0			0.9990		0.9900
Bromodichloromethane	1.4973 1.6561	1.5613 1.6745	1.6126 1.7138	1.5567	1.7003	Ave		1.6216			0.2000	4.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.8692	0.5916 0.9332	0.7229 0.9721	0.7587	0.8538	Ave		0.8145				16.2		20.0			
cis-1,3-Dichloropropene	1.4849 1.8994	1.6485 1.9828	1.7505 2.0413	1.7410	1.9616	Ave		1.8137			0.2000	10.5		20.0			
4-Methyl-2-pentanone (MIBK)	0.7798 0.9068	0.7985 0.8810	0.8442 0.8586	0.9287	0.9999	Ave		0.8747			0.1000	8.2		20.0			
Toluene	1.5149 1.3023	1.4080 1.3495	1.4579 1.3205	1.2800	1.3832	Ave		1.3770			0.4000	5.9		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 VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	0.6795 0.8714	0.7061 0.9061	0.7383 0.9042	0.8050	0.8693	Ave		0.8100			0.1000	11.3		20.0			
Ethyl methacrylate	+++++ 0.7601	0.5813 0.7799	0.6571 0.7698	0.7200	0.7777	Ave		0.7209				10.5		20.0			
1,1,2-Trichloroethane	0.4317 0.4780	0.4874 0.4805	0.4830 0.4727	0.4956	0.5183	Ave		0.4809			0.1000	5.1		20.0			
Tetrachloroethene	0.6872 0.6481	0.6642 0.6795	0.6923 0.6596	0.6057	0.6869	Ave		0.6654			0.2000	4.3		20.0			
1,3-Dichloropropane	0.7943 0.8653	0.8644 0.8532	0.8564 0.8503	0.8600	0.9079	Ave		0.8565				3.6		20.0			
2-Hexanone	0.5453 0.6488	0.5767 0.6189	0.5777 0.6001	0.6818	0.7083	Ave		0.6197			0.1000	9.1		20.0			
Dibromochloromethane	0.6298 0.7526	0.6561 0.7687	0.6775 0.7687	0.7174	0.7670	Ave		0.7172			0.1000	7.8		20.0			
1,2-Dibromoethane	0.5984 0.6455	0.5860 0.6600	0.5913 0.6595	0.6451	0.6859	Ave		0.6340				5.9		20.0			
Chlorobenzene	1.7156 1.5556	1.6384 1.6090	1.6587 1.5901	1.5398	1.6528	Ave		1.6200			0.5000	3.6		20.0			
Ethylbenzene	2.6284 2.4070	2.5398 2.5094	2.5288 2.4944	2.2659	2.5164	Ave		2.4863			0.1000	4.3		20.0			
1,1,1,2-Tetrachloroethane	0.6285 0.6371	0.6015 0.6458	0.6083 0.6435	0.6097	0.6727	Ave		0.6309				3.8		20.0			
m,p-Xylene	0.9687 0.9426	0.9604 0.9739	0.9951 0.9710	0.9152	0.9907	Ave		0.9647			0.1000	2.7		20.0			
o-Xylene	0.9170 0.9672	0.9114 0.9803	0.9579 0.9608	0.8757	0.9887	Ave		0.9449			0.3000	4.2		20.0			
Styrene	1.4680 1.5966	1.5198 1.6239	1.5989 1.5696	1.5168	1.6747	Ave		1.5710			0.3000	4.2		20.0			
Bromoform	0.4454 0.5163	0.4322 0.5414	0.4547 0.5472	0.4853	0.5203	Ave		0.4928			0.1000	9.1		20.0			
Isopropylbenzene	1.8614 2.0983	1.9408 2.2016	1.9521 2.2182	1.7460	2.0681	Ave		2.0108			0.1000	8.2		20.0			
Bromobenzene	0.6749 0.6902	0.6394 0.7084	0.6623 0.7144	0.6458	0.6903	Ave		0.6782				4.1		20.0			
1,1,2,2-Tetrachloroethane	0.7995 0.7842	0.7627 0.7810	0.7572 0.7797	0.7538	0.8136	Ave		0.7790			0.3000	2.7		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.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	2.5702 2.6804	2.5976 2.8085	2.6255 2.7637	2.3799	2.6866	Ave		2.6390				5.0		20.0			
1,2,3-Trichloropropane	0.1951 0.2053	0.1804 0.2032	0.1959 0.1993	0.1888	0.2118	Ave		0.1975				5.0		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2242	0.1286 0.2382	0.1490 0.2427	0.1838	0.2166	Lin1	-0.161	0.2405				10.7			0.9990		0.9900
2-Chlorotoluene	0.5878 0.5987	0.5611 0.6178	0.5601 0.6092	0.5394	0.5964	Ave		0.5838				4.7		20.0			
1,3,5-Trimethylbenzene	1.7260 1.9594	1.8419 2.0034	1.8652 1.9931	1.7428	1.9416	Ave		1.8842				5.8		20.0			
4-Chlorotoluene	0.5599 0.6145	0.5930 0.6252	0.6163 0.6210	0.5699	0.6335	Ave		0.6042				4.5		20.0			
tert-Butylbenzene	0.3053 0.3813	0.3433 0.4052	0.3505 0.4011	0.3272	0.3719	Ave		0.3607				9.8		20.0			
1,2,4-Trimethylbenzene	1.8667 2.0065	1.8977 2.0621	1.9153 2.0385	1.8150	2.0394	Ave		1.9552				4.8		20.0			
sec-Butylbenzene	2.3580 2.4897	2.4188 2.6207	2.4609 2.6199	2.1554	2.5107	Ave		2.4543				6.2		20.0			
4-Isopropyltoluene	1.9202 2.2097	2.0222 2.2818	2.0785 2.2792	1.8886	2.2014	Ave		2.1102				7.4		20.0			
1,3-Dichlorobenzene	1.3467 1.2672	1.2959 1.2725	1.3175 1.2527	1.2228	1.3105	Ave		1.2857			0.6000	3.1		20.0			
1,4-Dichlorobenzene	1.5098 1.2903	1.3471 1.2999	1.3854 1.3018	1.2888	1.3467	Ave		1.3462			0.5000	5.5		20.0			
n-Butylbenzene	1.8014 1.9880	1.8217 2.0653	1.9306 2.0585	1.6759	2.0093	Ave		1.9188				7.3		20.0			
1,2-Dichlorobenzene	1.3258 1.2634	1.2712 1.2740	1.2856 1.2485	1.2140	1.3386	Ave		1.2777			0.4000	3.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1482	0.1026 0.1482	0.1206 0.1544	0.1429	0.1526	Ave		0.1385			0.0500	14.0		20.0			
1,2,4-Trichlorobenzene	0.8292 0.9848	0.8282 0.9831	0.8641 0.9881	0.8466	0.9559	Ave		0.9100			0.2000	8.2		20.0			
Hexachlorobutadiene	0.4939 0.4821	0.4609 0.4834	0.4790 0.4678	0.4179	0.4801	Ave		0.4706				5.0		20.0			
Naphthalene	1.9279 2.3572	1.9361 2.3565	1.9598 2.3847	2.0292	2.3721	Ave		2.1655				10.1		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.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	0.8897 0.9324	0.8848 0.9156	0.8591 0.8996	0.8471	0.9539	Ave		0.8978				4.0		20.0			
Dibromofluoromethane (Surr)	1.6148 1.6103	1.6039 1.5596	1.6339 1.5540	1.6380	1.6445	Ave		1.6074				2.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.9121 0.9181	0.9125 0.8938	0.9154 0.8813	0.9286	0.9306	Ave		0.9116				1.8		20.0			
Toluene-d8 (Surr)	2.3853 2.4057	2.3917 2.4114	2.4465 2.3491	2.4438	2.4671	Ave		2.4126				1.6		20.0			
4-Bromofluorobenzene (Surr)	0.8320 0.8316	0.8389 0.8168	0.8483 0.8270	0.8644	0.8455	Ave		0.8381				1.8		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.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/47	D6858.d
Level 2	IC 480-725605/48	D6859.d
Level 3	IC 480-725605/49	D6860.d
Level 4	IC 480-725605/16	D6837.d
Level 5	IC 480-725605/17	D6838.d
Level 6	ICIS 480-725605/18	D6839.d
Level 7	IC 480-725605/19	D6840.d
Level 8	IC 480-725605/20	D6841.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	+++++ 350993	16072 713202	28975 1454144	60606	144762	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	8711 372773	17046 732411	31046 1479282	71510	155358	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	4870 233609	11052 472258	19354 945629	41983	95024	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	+++++ 228427	11877 462331	21443 932049	41597	94699	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	+++++ 175416	9372 342269	14265 692741	35981	73739	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	2388 116787	5783 226211	9877 459856	22129	48657	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	7784 385522	17749 740630	31700 1476445	74158	160377	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	6319 306239	14364 616004	26306 1217510	54089	126971	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	2732 152307	7486 301743	12726 585647	29715	63096	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	2019 125442	5036 251493	9942 509339	26045	54050	2.00 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	2817 178467	8073 370961	16769 737282	32320	71955	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3410 197913	9113 408208	18683 812858	34959	78922	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	8948 447408	18332 853271	39260 1740804	97911	196307	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	7554 431129	18756 859409	38989 1705808	84194	178033	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	11674	28578	59752	115352	259115	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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
			640370	1330050	2671362			25.0	50.0	100		
Allyl chloride	FB	Ave	6950 394663	16746 798730	34604 1599175	74934	161870	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	7902 462310	20247 887691	39139 1830528	100030	197241	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	12046 218441	17202 427440	27254 842072	48665	95866	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4962 294797	8469 586795	23488 1245172	60814	128717	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	9929 567294	24167 1130953	48746 2208500	115157	237511	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3567 200473	8846 408742	18778 793629	38793	84569	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	18185 1030682	44363 1991973	85471 3961104	221302	450428	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	5955 286620	14879 619768	27881 1227265	52133	118223	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	7673 403941	18001 808191	36663 1582541	82083	170048	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	15733 1167859	38626 2358764	81926 4706238	231266	483277	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	3792 219417	10489 443897	20308 839111	43248	91303	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4198 227960	10023 451863	20322 885703	44079	94575	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	11435 720775	27368 1429835	58127 2885769	142739	311152	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2336 133707	5608 265531	11726 510929	26973	56836	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4031 192339	8622 376960	17416 747465	41108	84802	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++ 389557	20668 772870	38785 1501538	81981	168515	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	5340 314671	14172 642542	29244 1263667	59097	132787	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	6816 360074	17207 762949	34629 1508096	64590	145810	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	5206 292448	13464 607574	26268 1233968	55906	123724	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4894 263005	12582 551099	25653 1089465	49455	109430	0.400 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.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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	14701 735178	34082 1505532	69485 2917502	150998	319257	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	6192 347470	11231 707779	27667 1485964	73730	153588	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	6150 320597	14756 650009	28544 1232886	69394	144917	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	8010 346259	19312 755016	32177 1458905	63583	142035	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4156 211479	9591 440232	19954 872044	41794	90688	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	5358 290581	13405 617884	27732 1235309	49977	116391	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	3824 221275	9277 451042	19979 896338	43909	94877	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2503 162024	6725 323113	13249 647245	33670	70517	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZd5	Lin1	+++++ 36793	+++++ 78079	1974 163953	6835	16729	+++++ 500	+++++ 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	4570 284469	11821 574774	24305 1154843	55897	119034	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 149298	4479 320344	10895 655067	27241	59772	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	4532 326258	12481 680617	26383 1375529	62515	137325	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZd5	Ave	23444 1525600	59304 3010140	123823 5945409	322845	678256	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZd5	Ave	9109 438162	20914 922139	42767 1828927	88991	187658	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZd5	Ave	4086 293210	10488 619195	21658 1252248	55969	117942	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 255759	8635 532897	19276 1066221	50059	105516	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZd5	Ave	2596 160823	7240 328341	14168 654661	34456	70315	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZd5	Ave	4132	9865	20310	42112	93196	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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
			218050	464310	913604			25.0	50.0	100		
1,3-Dichloropropane	CBNZd5	Ave	4776 291150	12840 583049	25123 1177720	59790	123180	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZd5	Ave	16394 1091547	42828 2114408	84735 4155993	236999	480471	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZd5	Ave	3787 253217	9746 525285	19873 1064669	49877	104053	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZd5	Ave	3598 217201	8704 451009	17345 913453	44849	93059	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZd5	Ave	10316 523420	24336 1099514	48659 2202286	107050	224239	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZd5	Ave	15805 809878	37725 1714734	74183 3454711	157534	341400	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZd5	Ave	3779 214365	8934 441328	17844 891213	42389	91261	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZd5	Ave	5825 317166	14265 665514	29192 1344840	63629	134411	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZd5	Ave	5514 325417	13537 669886	28101 1330633	60880	134134	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZd5	Ave	8827 537210	22575 1109629	46903 2173852	105451	227198	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZd5	Ave	2678 173726	6420 369947	13340 757842	33738	70584	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd4	Ave	12908 763259	32830 1611478	67383 3220304	142001	318795	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd4	Ave	4680 251064	10816 518526	22860 1037110	52522	106414	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd4	Ave	5544 285258	12901 571651	26137 1131939	61311	125415	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd4	Ave	17823 975019	43940 2055725	90627 4012314	193561	414135	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd4	Ave	1353	3052	6763	15356	32652	0.400	1.00	2.00	5.00	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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
			74683	148729	289294			25.0	50.0	100		
trans-1,4-Dichloro-2-butene	DCBd4	Lin1	+++++ 81540	2175 174392	5144 352308	14946	33386	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd4	Ave	4076 217797	9492 452204	19333 884452	43873	91939	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd4	Ave	11969 712744	31158 1466440	64382 2893593	141742	299293	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd4	Ave	3883 223535	10031 457634	21273 901616	46350	97653	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd4	Ave	2117 138715	5808 296614	12097 582362	26615	57326	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd4	Ave	12945 729865	32102 1509412	66111 2959545	147615	314368	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd4	Ave	16352 905633	40916 1918306	84944 3803538	175297	387026	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd4	Ave	13316 803805	34208 1670204	71746 3308921	153603	339343	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd4	Ave	9339 460942	21921 931436	45476 1818705	99449	202006	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dichlorobenzene	DCBd4	Ave	10470 469365	22788 951499	47822 1889961	104816	207586	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd4	Ave	12492 723155	30815 1511752	66641 2988565	136299	309738	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd4	Ave	9194 459591	21503 932554	44377 1812619	98738	206344	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	+++++ 53920	1735 108445	4162 224136	11625	23520	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd4	Ave	5750 358225	14009 719619	29826 1434572	68854	147357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd4	Ave	3425 175353	7797 353838	16535 679087	33987	74010	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd4	Ave	13369 857443	32751 1724911	67649 3462123	165039	365663	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd4	Ave	6170 339160	14968 670209	29653 1305966	68894	147046	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	308036 276603	303581 267682	307821 261785	294079	287813	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	173988 157704	172722 153401	172470 148466	166718	162870	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZd5	Ave	896455	888120	897108	849491	836781	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.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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
			809442	823906	813362			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZd 5	Ave	312695	311504	311046	300485	286772	25.0	25.0	25.0	25.0	25.0
			279805	279065	286332			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.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/47	D6858.d
Level 2	IC 480-725605/48	D6859.d
Level 3	IC 480-725605/49	D6860.d
Level 4	IC 480-725605/16	D6837.d
Level 5	IC 480-725605/17	D6838.d
Level 6	ICIS 480-725605/18	D6839.d
Level 7	IC 480-725605/19	D6840.d
Level 8	IC 480-725605/20	D6841.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	+++++	5.5						30				
Chloromethane	27.7						30					
Vinyl chloride	16.0						30					
Butadiene	+++++	14.8						30				
Bromomethane	+++++	18.9						30				
Chloroethane	13.1						30					
Dichlorofluoromethane	13.7						30					
Trichlorofluoromethane	14.9						30					
Ethyl ether	1.0						30					
Acrolein	-7.2						30					
1,1-Dichloroethene	-10.4						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	-2.9						30					
Acetone	10.8						30					
Iodomethane	-0.9						30					
Carbon disulfide	1.8						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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	0.2						30					
Methyl acetate	-3.5						30					
Methylene Chloride	4.1						30					
2-Methyl-2-propanol	-0.8						30					
Methyl tert-butyl ether	-0.5						30					
trans-1,2-Dichloroethene	-0.6						30					
Acrylonitrile	-0.2						30					
Hexane	9.9						30					
1,1-Dichloroethane	5.3						30					
Vinyl acetate	-17.0						30					
2,2-Dichloropropane	-3.5						30					
cis-1,2-Dichloroethene	4.0						30					
2-Butanone (MEK)	-7.2						30					
Chlorobromomethane	-0.6						30					
Tetrahydrofuran	13.6						30					
Chloroform	+++++	14.1						30				
1,1,1-Trichloroethane	-4.7						30					
Cyclohexane	3.6						30					
Carbon tetrachloride	-1.5						30					
1,1-Dichloropropene	1.3						30					
Benzene	8.0						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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	2.2						30					
1,2-Dichloroethane	4.3						30					
n-Heptane	20.0						30					
Trichloroethene	6.6						30					
Methylcyclohexane	2.2						30					
1,2-Dichloropropane	-2.8						30					
Dibromomethane	-11.1						30					
1,4-Dioxane	+++++	+++++	-5.1						30			
Bromodichloromethane	-7.7						30					
2-Chloroethyl vinyl ether	+++++	-27.4						30				
cis-1,3-Dichloropropene	-18.1						30					
4-Methyl-2-pentanone (MIBK)	-10.9						30					
Toluene	10.0						30					
trans-1,3-Dichloropropene	-16.1						30					
Ethyl methacrylate	+++++	-19.4						30				
1,1,2-Trichloroethane	-10.2						30					
Tetrachloroethene	3.3						30					
1,3-Dichloropropane	-7.3						30					
2-Hexanone	-12.0						30					
Dibromochloromethane	-12.2						30					
1,2-Dibromoethane	-5.6						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 | Calibration End Date: 09/20/2024 01:02 | Calibration ID: 47313

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	5.9						30					
Ethylbenzene	5.7						30					
1,1,1,2-Tetrachloroethane	-0.4						30					
m,p-Xylene	0.4						30					
o-Xylene	-2.9						30					
Styrene	-6.6						30					
Bromoform	-9.6						30					
Isopropylbenzene	-7.4						30					
Bromobenzene	-0.5						30					
1,1,2,2-Tetrachloroethane	2.6						30					
N-Propylbenzene	-2.6						30					
1,2,3-Trichloropropane	-1.2						30					
trans-1,4-Dichloro-2-butene	+++++	20.3						30				
2-Chlorotoluene	0.7						30					
1,3,5-Trimethylbenzene	-8.4						30					
4-Chlorotoluene	-7.3						30					
tert-Butylbenzene	-15.4						30					
1,2,4-Trimethylbenzene	-4.5						30					
sec-Butylbenzene	-3.9						30					
4-Isopropyltoluene	-9.0						30					
1,3-Dichlorobenzene	4.7						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 16:33 Calibration End Date: 09/20/2024 01:02 Calibration ID: 47313

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	12.2						30					
n-Butylbenzene	-6.1						30					
1,2-Dichlorobenzene	3.8						30					
1,2-Dibromo-3-Chloropropane	+++++	-25.9						30				
1,2,4-Trichlorobenzene	-8.9						30					
Hexachlorobutadiene	4.9						30					
Naphthalene	-11.0						30					
1,2,3-Trichlorobenzene	-0.9						30					
Dibromofluoromethane (Surr)	0.5						30					
1,2-Dichloroethane-d4 (Surr)	0.1						30					
Toluene-d8 (Surr)	-1.1						30					
4-Bromofluorobenzene (Surr)	-0.7						30					

Report Date: 20-Sep-2024 11:49:02 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6837.d
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Sep-2024 16:33:30 ALS Bottle#: 25 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0120124-016
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:01 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: G0BW Date: 19-Sep-2024 18:38:10

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	4.748	4.748	0.000	98	179536	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.101	0.000	87	347617	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	9.003	0.000	97	406653	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	294079	25.0	25.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	100	166718	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	849491	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.052	8.052	0.000	94	300485	25.0	25.8	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	60606	5.00	4.20	
12 Chloromethane	50	1.279	1.279	0.000	99	71510	5.00	4.46	
13 Vinyl chloride	62	1.359	1.359	0.000	97	41983	5.00	4.25	
144 Butadiene	54	1.377	1.377	0.000	96	41597	5.00	4.24	
14 Bromomethane	94	1.645	1.645	0.000	93	35981	5.00	4.81	
15 Chloroethane	64	1.694	1.694	0.000	95	22129	5.00	4.45	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	96	74158	5.00	4.60	
17 Trichlorofluoromethane	101	1.913	1.913	0.000	93	54089	5.00	4.18	
18 Ethyl ether	59	2.151	2.151	0.000	96	29715	5.00	4.67	
20 Acrolein	56	2.316	2.316	0.000	99	26045	25.0	25.4	
22 1,1-Dichloroethene	96	2.352	2.352	0.000	95	32320	5.00	4.37	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.358	2.358	0.000	87	34959	5.00	4.23	
23 Acetone	43	2.462	2.462	0.000	97	97911	25.0	25.8	
25 Iodomethane	142	2.511	2.511	0.000	99	84194	5.00	4.70	
26 Carbon disulfide	76	2.541	2.541	0.000	100	115352	5.00	4.28	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	74934	5.00	4.59	
27 Methyl acetate	43	2.736	2.736	0.000	100	100030	10.0	10.4	
30 Methylene Chloride	84	2.822	2.822	0.000	95	48665	5.00	4.63	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	94	60814	50.0	51.7	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	99	115157	5.00	4.90	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	94	38793	5.00	4.59	
33 Acrylonitrile	53	3.072	3.072	0.000	96	221302	50.0	51.6	
35 Hexane	57	3.206	3.206	0.000	95	52133	5.00	4.09	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	97	82083	5.00	4.79	
37 Vinyl acetate	43	3.450	3.450	0.000	97	231266	10.0	10.4	
44 2,2-Dichloropropane	77	3.840	3.840	0.000	91	43248	5.00	4.68	
45 cis-1,2-Dichloroethene	96	3.876	3.876	0.000	85	44079	5.00	4.64	
43 2-Butanone (MEK)	43	3.907	3.907	0.000	97	142739	25.0	24.6	
48 Chlorobromomethane	128	4.071	4.071	0.000	96	26973	5.00	4.88	
49 Tetrahydrofuran	42	4.090	4.090	0.000	93	41108	10.0	9.85	
50 Chloroform	83	4.139	4.139	0.000	95	81981	5.00	4.77	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	99	59097	5.00	4.48	
52 Cyclohexane	56	4.242	4.242	0.000	96	64590	5.00	4.17	
55 Carbon tetrachloride	117	4.352	4.352	0.000	97	55906	5.00	4.50	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	92	49455	5.00	4.35	
57 Benzene	78	4.529	4.529	0.000	96	150998	5.00	4.71	
53 Isobutyl alcohol	43	4.541	4.541	0.000	91	73730	125.0	129.3	
58 1,2-Dichloroethane	62	4.584	4.584	0.000	96	69394	5.00	5.00	
59 n-Heptane	43	4.675	4.675	0.000	96	63583	5.00	4.05	
62 Trichloroethene	95	5.029	5.029	0.000	97	41794	5.00	4.56	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	49977	5.00	4.05	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	93	43909	5.00	4.74	
67 Dibromomethane	93	5.327	5.327	0.000	96	33670	5.00	5.08	
66 1,4-Dioxane	88	5.333	5.333	0.000	37	6835	100.0	98.4	
68 Dichlorobromomethane	83	5.449	5.449	0.000	97	55897	5.00	4.80	
69 2-Chloroethyl vinyl ether	63	5.669	5.669	0.000	92	27241	5.00	4.66	
72 cis-1,3-Dichloropropene	75	5.778	5.778	0.000	91	62515	5.00	4.80	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	322845	25.0	26.5	
74 Toluene	92	6.004	6.004	0.000	97	88991	5.00	4.65	
77 trans-1,3-Dichloropropene	75	6.217	6.217	0.000	96	55969	5.00	4.97	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	50059	5.00	4.99	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	93	34456	5.00	5.15	
81 Tetrachloroethene	166	6.419	6.419	0.000	96	42112	5.00	4.55	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	98	59790	5.00	5.02	
80 2-Hexanone	43	6.534	6.534	0.000	99	236999	25.0	27.5	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	49877	5.00	5.00	
84 Ethylene Dibromide	107	6.760	6.760	0.000	98	44849	5.00	5.09	
87 Chlorobenzene	112	7.126	7.126	0.000	97	107050	5.00	4.75	
88 Ethylbenzene	91	7.187	7.187	0.000	99	157534	5.00	4.56	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	96	42389	5.00	4.83	
90 m-Xylene & p-Xylene	106	7.284	7.284	0.000	99	63629	5.00	4.74	
91 o-Xylene	106	7.607	7.607	0.000	98	60880	5.00	4.63	
92 Styrene	104	7.632	7.632	0.000	94	105451	5.00	4.83	
95 Bromoform	173	7.821	7.821	0.000	95	33738	5.00	4.92	
94 Isopropylbenzene	105	7.894	7.894	0.000	97	142001	5.00	4.34	
101 Bromobenzene	156	8.180	8.180	0.000	91	52522	5.00	4.76	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	96	61311	5.00	4.84	
99 N-Propylbenzene	91	8.235	8.235	0.000	99	193561	5.00	4.51	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	84	15356	5.00	4.78	
98 trans-1,4-Dichloro-2-butene	53	8.247	8.247	0.000	86	14946	5.00	4.49	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	43873	5.00	4.62	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	141742	5.00	4.62	
105 4-Chlorotoluene	126	8.418	8.418	0.000	97	46350	5.00	4.72	
106 tert-Butylbenzene	134	8.644	8.644	0.000	95	26615	5.00	4.54	
107 1,2,4-Trimethylbenzene	105	8.693	8.693	0.000	97	147615	5.00	4.64	

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	8.821	8.821	0.000	95	175297	5.00	4.39	
110 4-Isopropyltoluene	119	8.942	8.942	0.000	97	153603	5.00	4.47	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	98	99449	5.00	4.76	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	97	104816	5.00	4.79	
115 n-Butylbenzene	91	9.290	9.290	0.000	99	136299	5.00	4.37	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	98738	5.00	4.75	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	84	11625	5.00	5.16	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	95	68854	5.00	4.65	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	33987	5.00	4.44	
121 Naphthalene	128	10.899	10.899	0.000	97	165039	5.00	4.69	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	95	68894	5.00	4.72	
S 125 1,2-Dichloroethene, Total	1				0			9.23	
S 126 1,3-Dichloropropene, Total	1				0			9.77	
S 124 Xylenes, Total	1				0			9.38	
S 123 Total BTEX	1				0			23.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added:	5.00	Units: uL	
GAS CORP mix_00641	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

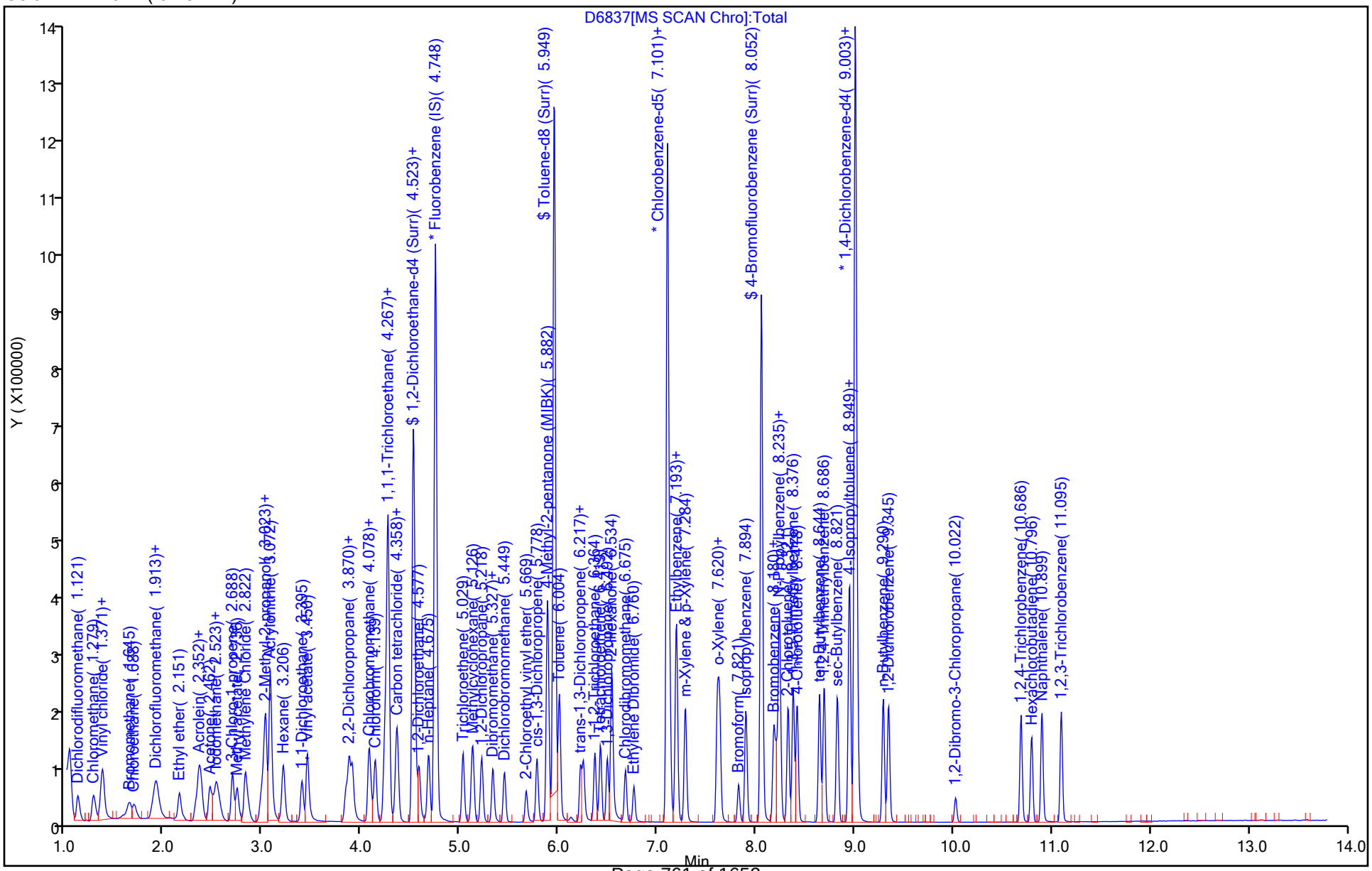
Report Date: 20-Sep-2024 11:49:02 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6837.d

Injection Date:	19-Sep-2024 16:33:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 20-Sep-2024 11:49:13 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6838.d
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Sep-2024 16:55:30 ALS Bottle#: 26 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0120124-017
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:13 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: G0BW Date: 19-Sep-2024 18:38:36

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	4.748	4.748	0.000	98	175020	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.101	0.001	87	339171	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.003	0.001	95	385372	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	287813	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	162870	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	836781	25.0	25.6	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.052	0.001	95	286772	25.0	25.2	
10 Dichlorodifluoromethane	85	1.127	1.121	0.006	99	144762	10.0	10.3	
12 Chloromethane	50	1.286	1.279	0.007	99	155358	10.0	9.93	
13 Vinyl chloride	62	1.359	1.359	0.000	98	95024	10.0	9.87	
144 Butadiene	54	1.377	1.377	0.000	99	94699	10.0	9.90	
14 Bromomethane	94	1.645	1.645	0.000	92	73739	10.0	10.1	
15 Chloroethane	64	1.700	1.694	0.006	95	48657	10.0	10.0	
16 Dichlorofluoromethane	67	1.914	1.907	0.007	97	160377	10.0	10.2	
17 Trichlorofluoromethane	101	1.920	1.913	0.007	98	126971	10.0	10.1	
18 Ethyl ether	59	2.151	2.151	0.000	96	63096	10.0	10.2	
20 Acrolein	56	2.316	2.316	0.000	97	54050	50.0	54.2	
22 1,1-Dichloroethene	96	2.359	2.352	0.007	94	71955	10.0	9.97	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.365	2.358	0.007	90	78922	10.0	9.79	
23 Acetone	43	2.462	2.462	0.000	97	196307	50.0	53.0	
25 Iodomethane	142	2.517	2.511	0.006	100	178033	10.0	10.2	
26 Carbon disulfide	76	2.548	2.541	0.007	100	259115	10.0	9.86	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	161870	10.0	10.2	
27 Methyl acetate	43	2.737	2.736	0.001	100	197241	20.0	21.0	
30 Methylene Chloride	84	2.822	2.822	0.000	96	95866	10.0	10.2	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	95	128717	100.0	112.2	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	99	237511	10.0	10.4	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	96	84569	10.0	10.3	
33 Acrylonitrile	53	3.072	3.072	0.000	96	450428	100.0	107.8	
35 Hexane	57	3.206	3.206	0.000	95	118223	10.0	9.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	97	170048	10.0	10.2	
37 Vinyl acetate	43	3.450	3.450	0.000	97	483277	20.0	22.2	
44 2,2-Dichloropropane	77	3.846	3.840	0.006	92	91303	10.0	10.1	
45 cis-1,2-Dichloroethene	96	3.877	3.876	0.001	85	94575	10.0	10.2	
43 2-Butanone (MEK)	43	3.907	3.907	0.000	97	311152	50.0	55.1	
48 Chlorobromomethane	128	4.072	4.071	0.001	95	56836	10.0	10.5	
49 Tetrahydrofuran	42	4.090	4.090	0.000	92	84802	20.0	20.8	
50 Chloroform	83	4.139	4.139	0.000	95	168515	10.0	10.1	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	98	132787	10.0	10.3	
52 Cyclohexane	56	4.242	4.242	0.000	97	145810	10.0	9.66	
55 Carbon tetrachloride	117	4.352	4.352	0.000	96	123724	10.0	10.2	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	91	109430	10.0	9.88	
57 Benzene	78	4.529	4.529	0.000	96	319257	10.0	10.2	
53 Isobutyl alcohol	43	4.541	4.541	0.000	93	153588	250.0	276.2	
58 1,2-Dichloroethane	62	4.584	4.584	0.000	96	144917	10.0	10.7	
59 n-Heptane	43	4.681	4.675	0.006	96	142035	10.0	9.28	
62 Trichloroethene	95	5.029	5.029	0.000	97	90688	10.0	10.1	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	116391	10.0	9.68	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	94877	10.0	10.5	
67 Dibromomethane	93	5.328	5.327	0.001	96	70517	10.0	10.9	
66 1,4-Dioxane	88	5.334	5.333	0.001	38	16729	200.0	223.9	
68 Dichlorobromomethane	83	5.449	5.449	0.000	97	119034	10.0	10.5	
69 2-Chloroethyl vinyl ether	63	5.669	5.669	0.000	92	59772	10.0	10.5	
72 cis-1,3-Dichloropropene	75	5.779	5.778	0.001	92	137325	10.0	10.8	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	678256	50.0	57.2	
74 Toluene	92	6.004	6.004	0.000	98	187658	10.0	10.0	
77 trans-1,3-Dichloropropene	75	6.218	6.217	0.001	98	117942	10.0	10.7	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	105516	10.0	10.8	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	92	70315	10.0	10.8	
81 Tetrachloroethene	166	6.419	6.419	0.000	96	93196	10.0	10.3	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	96	123180	10.0	10.6	
80 2-Hexanone	43	6.535	6.534	0.001	99	480471	50.0	57.1	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	104053	10.0	10.7	
84 Ethylene Dibromide	107	6.760	6.760	0.000	99	93059	10.0	10.8	
87 Chlorobenzene	112	7.126	7.126	0.000	96	224239	10.0	10.2	
88 Ethylbenzene	91	7.187	7.187	0.000	99	341400	10.0	10.1	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	96	91261	10.0	10.7	
90 m-Xylene & p-Xylene	106	7.284	7.284	0.000	99	134411	10.0	10.3	
91 o-Xylene	106	7.608	7.607	0.001	97	134134	10.0	10.5	
92 Styrene	104	7.626	7.632	-0.006	94	227198	10.0	10.7	
95 Bromoform	173	7.821	7.821	0.000	96	70584	10.0	10.6	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	318795	10.0	10.3	
101 Bromobenzene	156	8.181	8.180	0.001	91	106414	10.0	10.2	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	125415	10.0	10.4	
99 N-Propylbenzene	91	8.236	8.235	0.001	99	414135	10.0	10.2	
100 1,2,3-Trichloropropane	110	8.236	8.235	0.001	86	32652	10.0	10.7	
98 trans-1,4-Dichloro-2-butene	53	8.242	8.247	-0.005	84	33386	10.0	9.67	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	91939	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	299293	10.0	10.3	
105 4-Chlorotoluene	126	8.412	8.418	-0.006	96	97653	10.0	10.5	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	57326	10.0	10.3	
107 1,2,4-Trimethylbenzene	105	8.687	8.693	-0.006	97	314368	10.0	10.4	

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	8.821	8.821	0.000	95	387026	10.0	10.2	
110 4-Isopropyltoluene	119	8.943	8.942	0.001	97	339343	10.0	10.4	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	98	202006	10.0	10.2	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	97	207586	10.0	10.0	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	309738	10.0	10.5	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	206344	10.0	10.5	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	85	23520	10.0	11.0	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	95	147357	10.0	10.5	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	74010	10.0	10.2	
121 Naphthalene	128	10.900	10.899	0.001	97	365663	10.0	11.0	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.001	96	147046	10.0	10.6	
S 125 1,2-Dichloroethene, Total	1				0			20.5	
S 126 1,3-Dichloropropene, Total	1				0			21.5	
S 124 Xylenes, Total	1				0			20.7	
S 123 Total BTEX	1				0			51.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added:	5.00	Units: uL	
GAS CORP mix_00641	Amount Added:	5.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

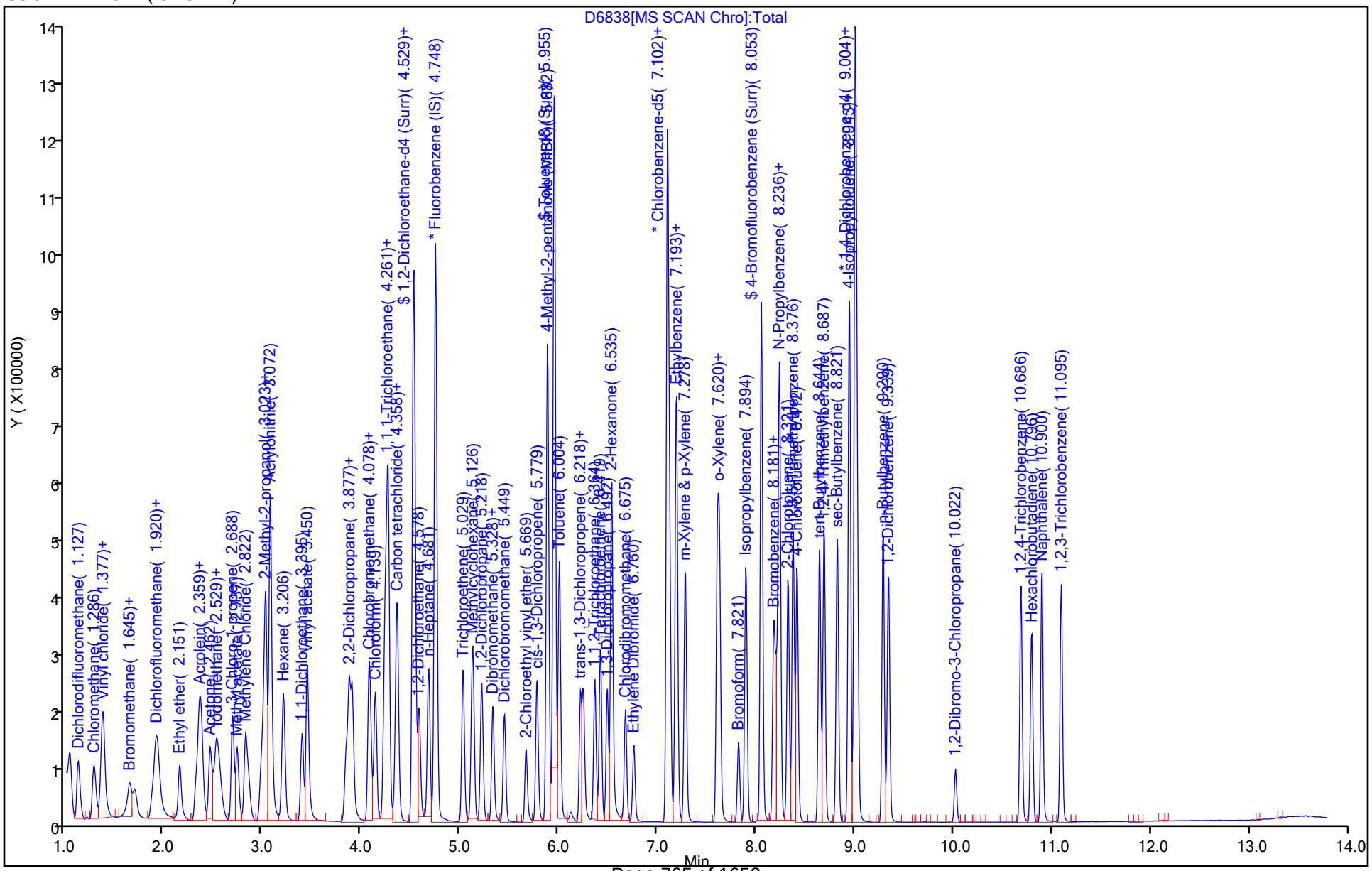
Report Date: 20-Sep-2024 11:49:13 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6838.d

Injection Date:	19-Sep-2024 16:55:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6839.d
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 19-Sep-2024 17:18:30 ALS Bottle#: 27 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0120124-018
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:24 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: G0BW Date: 19-Sep-2024 18:28:11

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	4.748	4.748	0.000	98	171768	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	336464	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	363759	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	94	276603	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	157704	25.0	25.2	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	809442	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	95	279805	25.0	24.8	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	350993	25.0	25.4	
12 Chloromethane	50	1.280	1.280	0.000	99	372773	25.0	24.3	
13 Vinyl chloride	62	1.359	1.359	0.000	98	233609	25.0	24.7	
144 Butadiene	54	1.377	1.377	0.000	98	228427	25.0	24.3	
14 Bromomethane	94	1.645	1.645	0.000	92	175416	25.0	24.5	
15 Chloroethane	64	1.700	1.700	0.000	96	116787	25.0	24.6	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	98	385522	25.0	25.0	
17 Trichlorofluoromethane	101	1.914	1.914	0.000	98	306239	25.0	24.7	
18 Ethyl ether	59	2.151	2.151	0.000	96	152307	25.0	25.0	
20 Acrolein	56	2.316	2.316	0.000	97	125442	125.0	128.1	
22 1,1-Dichloroethene	96	2.359	2.359	0.000	94	178467	25.0	25.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.359	2.359	0.000	93	197913	25.0	25.0	
23 Acetone	43	2.462	2.462	0.000	97	447408	125.0	123.1	
25 Iodomethane	142	2.517	2.517	0.000	100	431129	25.0	25.1	
26 Carbon disulfide	76	2.548	2.548	0.000	100	640370	25.0	24.8	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	394663	25.0	25.3	
27 Methyl acetate	43	2.737	2.737	0.000	100	462310	50.0	50.2	
30 Methylene Chloride	84	2.822	2.822	0.000	96	218441	25.0	24.9	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	97	294797	250.0	261.9	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	99	567294	25.0	25.3	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	94	200473	25.0	24.8	
33 Acrylonitrile	53	3.072	3.072	0.000	96	1030682	250.0	251.2	
35 Hexane	57	3.206	3.206	0.000	95	286620	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
39 1,1-Dichloroethane	63	3.395	3.395	0.000	97	403941	25.0	24.6	
37 Vinyl acetate	43	3.444	3.444	0.000	96	1167859	50.0	54.7	
44 2,2-Dichloropropane	77	3.846	3.846	0.000	92	219417	25.0	24.8	
45 cis-1,2-Dichloroethene	96	3.877	3.877	0.000	83	227960	25.0	25.1	
43 2-Butanone (MEK)	43	3.901	3.901	0.000	97	720775	125.0	130.0	
48 Chlorobromomethane	128	4.072	4.072	0.000	96	133707	25.0	25.3	
49 Tetrahydrofuran	42	4.084	4.084	0.000	93	192339	50.0	48.2	
50 Chloroform	83	4.139	4.139	0.000	95	389557	25.0	23.7	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	99	314671	25.0	25.0	
52 Cyclohexane	56	4.242	4.242	0.000	97	360074	25.0	24.3	
55 Carbon tetrachloride	117	4.352	4.352	0.000	98	292448	25.0	24.6	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	93	263005	25.0	24.2	
57 Benzene	78	4.529	4.529	0.000	97	735178	25.0	24.0	
53 Isobutyl alcohol	43	4.535	4.535	0.000	93	347470	625.0	636.7	
58 1,2-Dichloroethane	62	4.584	4.584	0.000	97	320597	25.0	24.2	
59 n-Heptane	43	4.675	4.675	0.000	97	346259	25.0	23.1	
62 Trichloroethene	95	5.029	5.029	0.000	97	211479	25.0	24.1	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	290581	25.0	24.6	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	221275	25.0	25.0	
67 Dibromomethane	93	5.328	5.328	0.000	97	162024	25.0	25.6	
66 1,4-Dioxane	88	5.328	5.328	0.000	97	36793	500.0	478.0	
68 Dichlorobromomethane	83	5.449	5.449	0.000	97	284469	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	5.663	5.663	0.000	92	149298	25.0	26.7	
72 cis-1,3-Dichloropropene	75	5.779	5.779	0.000	92	326258	25.0	26.2	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	1525600	125.0	129.6	
74 Toluene	92	6.004	6.004	0.000	98	438162	25.0	23.6	
77 trans-1,3-Dichloropropene	75	6.218	6.218	0.000	93	293210	25.0	26.9	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	255759	25.0	26.4	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	93	160823	25.0	24.8	
81 Tetrachloroethene	166	6.419	6.419	0.000	96	218050	25.0	24.3	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	96	291150	25.0	25.3	
80 2-Hexanone	43	6.535	6.535	0.000	99	1091547	125.0	130.9	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	253217	25.0	26.2	
84 Ethylene Dibromide	107	6.760	6.760	0.000	100	217201	25.0	25.5	
87 Chlorobenzene	112	7.126	7.126	0.000	97	523420	25.0	24.0	
88 Ethylbenzene	91	7.187	7.187	0.000	99	809878	25.0	24.2	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	97	214365	25.0	25.2	
90 m-Xylene & p-Xylene	106	7.278	7.278	0.000	99	317166	25.0	24.4	
91 o-Xylene	106	7.608	7.608	0.000	96	325417	25.0	25.6	
92 Styrene	104	7.626	7.626	0.000	93	537210	25.0	25.4	
95 Bromoform	173	7.821	7.821	0.000	96	173726	25.0	26.2	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	763259	25.0	26.1	
101 Bromobenzene	156	8.181	8.181	0.000	91	251064	25.0	25.4	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	285258	25.0	25.2	
99 N-Propylbenzene	91	8.235	8.235	0.000	99	975019	25.0	25.4	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	86	74683	25.0	26.0	
98 trans-1,4-Dichloro-2-butene	53	8.242	8.242	0.000	85	81540	25.0	24.0	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	217797	25.0	25.6	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	93	712744	25.0	26.0	
105 4-Chlorotoluene	126	8.412	8.412	0.000	96	223535	25.0	25.4	
106 tert-Butylbenzene	134	8.644	8.644	0.000	95	138715	25.0	26.4	
107 1,2,4-Trimethylbenzene	105	8.687	8.687	0.000	95	729865	25.0	25.7	

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	8.821	8.821	0.000	95	905633	25.0	25.4	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	97	803805	25.0	26.2	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	98	460942	25.0	24.6	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	97	469365	25.0	24.0	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	723155	25.0	25.9	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	459591	25.0	24.7	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	85	53920	25.0	26.8	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	94	358225	25.0	27.1	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	175353	25.0	25.6	
121 Naphthalene	128	10.900	10.900	0.000	97	857443	25.0	27.2	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	339160	25.0	26.0	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00641	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

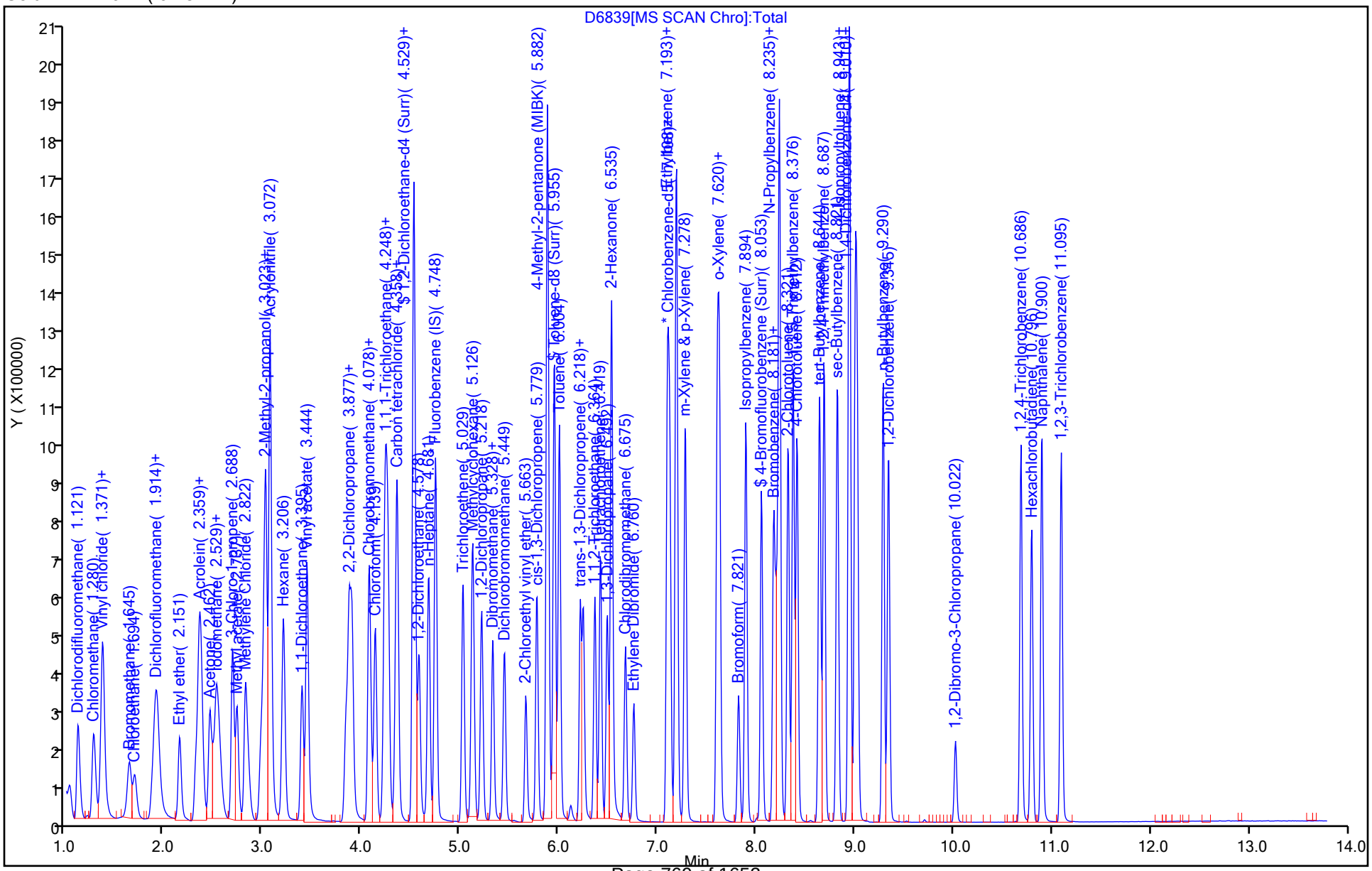
Report Date: 20-Sep-2024 11:49:25 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6839.d

Injection Date:	19-Sep-2024 17:18:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6840.d
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Sep-2024 17:40:30 ALS Bottle#: 28 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0120124-019
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:33 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: G0BW Date: 19-Sep-2024 18:39:07

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	4.748	4.748	0.000	98	171630	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	341666	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	96	365986	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	94	267682	25.0	24.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	98	153401	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	823906	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	279065	25.0	24.4	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	713202	50.0	51.6	
12 Chloromethane	50	1.280	1.280	0.000	99	732411	50.0	47.7	
13 Vinyl chloride	62	1.359	1.359	0.000	98	472258	50.0	50.0	
144 Butadiene	54	1.377	1.377	0.000	98	462331	50.0	49.3	
14 Bromomethane	94	1.639	1.645	-0.006	92	342269	50.0	47.9	
15 Chloroethane	64	1.700	1.700	0.000	96	226211	50.0	47.6	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	98	740630	50.0	48.1	
17 Trichlorofluoromethane	101	1.914	1.914	0.000	99	616004	50.0	49.8	
18 Ethyl ether	59	2.151	2.151	0.000	97	301743	50.0	49.6	
20 Acrolein	56	2.316	2.316	0.000	99	251493	250.0	257.0	
22 1,1-Dichloroethene	96	2.359	2.359	0.000	94	370961	50.0	52.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.359	2.359	0.000	67	408208	50.0	51.7	
23 Acetone	43	2.456	2.462	-0.006	97	853271	250.0	234.9	
25 Iodomethane	142	2.517	2.517	0.000	99	859409	50.0	50.1	
26 Carbon disulfide	76	2.548	2.548	0.000	100	1330050	50.0	51.6	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	798730	50.0	51.2	
27 Methyl acetate	43	2.737	2.737	0.000	100	887691	100.0	96.4	
30 Methylene Chloride	84	2.822	2.822	0.000	96	427440	50.0	49.6	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	98	586795	500.0	521.6	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	99	1130953	50.0	50.4	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	95	408742	50.0	50.6	
33 Acrylonitrile	53	3.072	3.072	0.000	96	1991973	500.0	485.9	
35 Hexane	57	3.206	3.206	0.000	96	619768	50.0	50.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	97	808191	50.0	49.3	
37 Vinyl acetate	43	3.444	3.444	0.000	97	2358764	100.0	110.6	
44 2,2-Dichloropropane	77	3.840	3.846	-0.006	95	443897	50.0	50.2	
45 cis-1,2-Dichloroethene	96	3.871	3.877	-0.006	85	451863	50.0	49.8	
43 2-Butanone (MEK)	43	3.901	3.901	0.000	97	1429835	250.0	258.1	
48 Chlorobromomethane	128	4.072	4.072	0.000	95	265531	50.0	50.3	
49 Tetrahydrofuran	42	4.084	4.084	0.000	93	376960	100.0	94.5	
50 Chloroform	83	4.139	4.139	0.000	95	772870	50.0	47.1	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	99	642542	50.0	51.0	
52 Cyclohexane	56	4.242	4.242	0.000	96	762949	50.0	51.6	
55 Carbon tetrachloride	117	4.352	4.352	0.000	96	607574	50.0	51.1	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	94	551099	50.0	50.7	
57 Benzene	78	4.529	4.529	0.000	97	1505532	50.0	49.2	
53 Isobutyl alcohol	43	4.535	4.535	0.000	93	707779	1250.0	1298.0	
58 1,2-Dichloroethane	62	4.578	4.584	-0.006	96	650009	50.0	49.0	
59 n-Heptane	43	4.675	4.675	0.000	97	755016	50.0	50.3	
62 Trichloroethene	95	5.029	5.029	0.000	96	440232	50.0	50.2	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	617884	50.0	52.4	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	451042	50.0	51.0	
67 Dibromomethane	93	5.328	5.328	0.000	97	323113	50.0	51.0	
66 1,4-Dioxane	88	5.328	5.328	0.000	84	78079	1000.0	982.4	
68 Dichlorobromomethane	83	5.443	5.449	-0.006	97	574774	50.0	51.6	
69 2-Chloroethyl vinyl ether	63	5.663	5.663	0.000	92	320344	50.0	57.3	
72 cis-1,3-Dichloropropene	75	5.773	5.779	-0.006	92	680617	50.0	54.7	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	3010140	250.0	251.8	
74 Toluene	92	6.004	6.004	0.000	98	922139	50.0	49.0	
77 trans-1,3-Dichloropropene	75	6.218	6.218	0.000	96	619195	50.0	55.9	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	532897	50.0	54.1	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	93	328341	50.0	50.0	
81 Tetrachloroethene	166	6.419	6.419	0.000	97	464310	50.0	51.1	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	96	583049	50.0	49.8	
80 2-Hexanone	43	6.535	6.535	0.000	99	2114408	250.0	249.7	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	525285	50.0	53.6	
84 Ethylene Dibromide	107	6.760	6.760	0.000	100	451009	50.0	52.1	
87 Chlorobenzene	112	7.126	7.126	0.000	98	1099514	50.0	49.7	
88 Ethylbenzene	91	7.187	7.187	0.000	99	1714734	50.0	50.5	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	96	441328	50.0	51.2	
90 m-Xylene & p-Xylene	106	7.278	7.278	0.000	99	665514	50.0	50.5	
91 o-Xylene	106	7.608	7.608	0.000	97	669886	50.0	51.9	
92 Styrene	104	7.626	7.626	0.000	95	1109629	50.0	51.7	
95 Bromoform	173	7.821	7.821	0.000	96	369947	50.0	54.9	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	1611478	50.0	54.7	
101 Bromobenzene	156	8.181	8.181	0.000	91	518526	50.0	52.2	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	571651	50.0	50.1	
99 N-Propylbenzene	91	8.236	8.235	0.001	99	2055725	50.0	53.2	
100 1,2,3-Trichloropropane	110	8.236	8.235	0.001	85	148729	50.0	51.4	
98 trans-1,4-Dichloro-2-butene	53	8.242	8.242	0.000	85	174392	50.0	50.2	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	452204	50.0	52.9	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	1466440	50.0	53.2	
105 4-Chlorotoluene	126	8.412	8.412	0.000	97	457634	50.0	51.7	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	296614	50.0	56.2	
107 1,2,4-Trimethylbenzene	105	8.687	8.687	0.000	98	1509412	50.0	52.7	

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	8.821	8.821	0.000	95	1918306	50.0	53.4	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	97	1670204	50.0	54.1	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	98	931436	50.0	49.5	
113 1,4-Dichlorobenzene	146	9.022	9.028	-0.006	97	951499	50.0	48.3	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	1511752	50.0	53.8	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	932554	50.0	49.9	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	87	108445	50.0	53.5	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	94	719619	50.0	54.0	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	353838	50.0	51.4	
121 Naphthalene	128	10.894	10.900	-0.006	97	1724911	50.0	54.4	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	670209	50.0	51.0	
S 125 1,2-Dichloroethene, Total	1				0			100.4	
S 126 1,3-Dichloropropene, Total	1				0			110.6	
S 124 Xylenes, Total	1				0			102.4	
S 123 Total BTEX	1				0			251.0	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 25.00	Units: uL	
GAS CORP mix_00641	Amount Added: 25.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

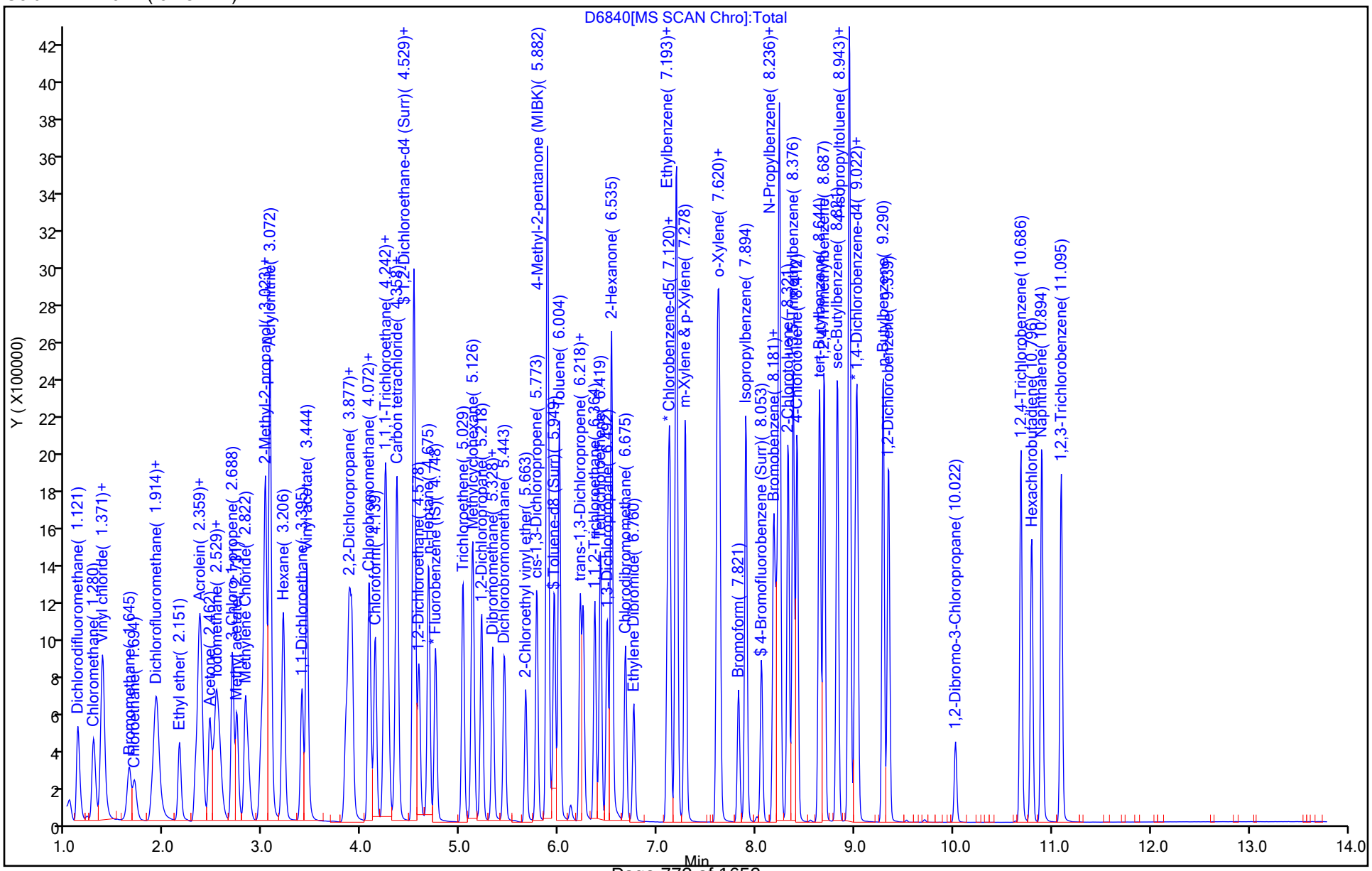
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Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6840.d

Injection Date:	19-Sep-2024 17:40:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 20-Sep-2024 11:49:45 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6841.d
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 19-Sep-2024 18:02:30 ALS Bottle#: 29 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0120124-020
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: G0BW Date: 19-Sep-2024 18:40:06

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	4.748	4.748	0.000	98	168463	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.102	-0.001	87	346247	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	94	362948	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	94	261785	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	98	148466	25.0	24.2	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	813362	25.0	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.052	8.053	-0.001	95	286332	25.0	24.7	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	1454144	100.0	107.3	
12 Chloromethane	50	1.279	1.280	-0.001	99	1479282	100.0	98.2	
13 Vinyl chloride	62	1.359	1.359	0.000	98	945629	100.0	102.0	
144 Butadiene	54	1.377	1.377	0.000	98	932049	100.0	101.3	
14 Bromomethane	94	1.645	1.645	0.000	92	692741	100.0	98.8	
15 Chloroethane	64	1.700	1.700	0.000	95	459856	100.0	98.6	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	98	1476445	100.0	97.7	
17 Trichlorofluoromethane	101	1.913	1.914	-0.001	98	1217510	100.0	100.3	
18 Ethyl ether	59	2.151	2.151	0.000	97	585647	100.0	98.0	
20 Acrolein	56	2.316	2.316	0.000	99	509339	500.0	530.2	
22 1,1-Dichloroethene	96	2.358	2.359	-0.001	94	737282	100.0	106.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.358	2.359	-0.001	94	812858	100.0	104.8	
23 Acetone	43	2.456	2.462	-0.006	98	1740804	500.0	488.3	
25 Iodomethane	142	2.517	2.517	0.000	99	1705808	100.0	101.4	
26 Carbon disulfide	76	2.547	2.548	-0.001	100	2671362	100.0	105.6	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	1599175	100.0	104.4	
27 Methyl acetate	43	2.730	2.737	-0.007	100	1830528	200.0	202.6	
30 Methylene Chloride	84	2.822	2.822	0.000	96	842072	100.0	100.5	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	96	1245172	1000.0	1127.7	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	98	2208500	100.0	100.3	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	95	793629	100.0	100.2	
33 Acrylonitrile	53	3.072	3.072	0.000	96	3961104	1000.0	984.5	
35 Hexane	57	3.206	3.206	0.000	95	1227265	100.0	102.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	96	1582541	100.0	98.4	
37 Vinyl acetate	43	3.444	3.444	0.000	96	4706238	200.0	224.9	
44 2,2-Dichloropropane	77	3.840	3.846	-0.006	95	839111	100.0	96.7	
45 cis-1,2-Dichloroethene	96	3.870	3.877	-0.007	84	885703	100.0	99.3	
43 2-Butanone (MEK)	43	3.901	3.901	0.000	97	2885769	500.0	530.6	
48 Chlorobromomethane	128	4.072	4.072	0.000	96	510929	100.0	98.5	
49 Tetrahydrofuran	42	4.084	4.084	0.000	93	747465	200.0	190.9	
50 Chloroform	83	4.139	4.139	0.000	95	1501538	100.0	93.2	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	99	1263667	100.0	102.2	
52 Cyclohexane	56	4.242	4.242	0.000	97	1508096	100.0	103.8	
55 Carbon tetrachloride	117	4.352	4.352	0.000	97	1233968	100.0	105.7	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	93	1089465	100.0	102.2	
57 Benzene	78	4.529	4.529	0.000	98	2917502	100.0	97.1	
53 Isobutyl alcohol	43	4.535	4.535	0.000	93	1485964	2500.0	2776.4	
58 1,2-Dichloroethane	62	4.578	4.584	-0.006	96	1232886	100.0	94.7	
59 n-Heptane	43	4.675	4.675	0.000	97	1458905	100.0	99.0	
62 Trichloroethene	95	5.023	5.029	-0.006	97	872044	100.0	101.3	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	1235309	100.0	106.7	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	896338	100.0	103.2	
67 Dibromomethane	93	5.327	5.328	-0.001	97	647245	100.0	104.2	
66 1,4-Dioxane	88	5.327	5.328	-0.001	94	163953	2000.0	2019.4	
68 Dichlorobromomethane	83	5.443	5.449	-0.006	97	1154843	100.0	105.7	
69 2-Chloroethyl vinyl ether	63	5.663	5.663	0.000	92	655067	100.0	119.4	
72 cis-1,3-Dichloropropene	75	5.772	5.779	-0.007	93	1375529	100.0	112.5	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	5945409	500.0	490.8	
74 Toluene	92	6.004	6.004	0.000	98	1828927	100.0	95.9	
77 trans-1,3-Dichloropropene	75	6.217	6.218	-0.001	96	1252248	100.0	111.6	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	1066221	100.0	106.8	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	92	654661	100.0	98.3	
81 Tetrachloroethene	166	6.419	6.419	0.000	97	913604	100.0	99.1	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	96	1177720	100.0	99.3	
80 2-Hexanone	43	6.535	6.535	-0.001	100	4155993	500.0	484.2	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	1064669	100.0	107.2	
84 Ethylene Dibromide	107	6.760	6.760	0.000	99	913453	100.0	104.0	
87 Chlorobenzene	112	7.126	7.126	0.000	94	2202286	100.0	98.2	
88 Ethylbenzene	91	7.187	7.187	0.000	99	3454711	100.0	100.3	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	97	891213	100.0	102.0	
90 m-Xylene & p-Xylene	106	7.278	7.278	0.000	99	1344840	100.0	100.7	
91 o-Xylene	106	7.607	7.608	-0.001	97	1330633	100.0	101.7	
92 Styrene	104	7.626	7.626	0.000	93	2173852	100.0	99.9	
95 Bromoform	173	7.821	7.821	0.000	97	757842	100.0	111.0	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	3220304	100.0	110.3	
101 Bromobenzene	156	8.181	8.181	0.000	90	1037110	100.0	105.3	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	1131939	100.0	100.1	
99 N-Propylbenzene	91	8.235	8.235	0.000	99	4012314	100.0	104.7	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	84	289294	100.0	100.9	
98 trans-1,4-Dichloro-2-butene	53	8.241	8.242	-0.001	85	352308	100.0	101.6	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	884452	100.0	104.3	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	2893593	100.0	105.8	
105 4-Chlorotoluene	126	8.418	8.412	0.006	97	901616	100.0	102.8	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	582362	100.0	111.2	
107 1,2,4-Trimethylbenzene	105	8.693	8.687	0.006	98	2959545	100.0	104.3	

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	8.827	8.821	0.006	95	3803538	100.0	106.7	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	97	3308921	100.0	108.0	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	99	1818705	100.0	97.4	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	96	1889961	100.0	96.7	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	2988565	100.0	107.3	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	1812619	100.0	97.7	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	88	224136	100.0	111.5	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	95	1434572	100.0	108.6	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	679087	100.0	99.4	
121 Naphthalene	128	10.900	10.900	0.000	97	3462123	100.0	110.1	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	1305966	100.0	100.2	
S 125 1,2-Dichloroethene, Total	1				0			199.5	
S 126 1,3-Dichloropropene, Total	1				0			224.2	
S 124 Xylenes, Total	1				0			202.3	
S 123 Total BTEX	1				0			495.6	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 50.00	Units: uL	
GAS CORP mix_00641	Amount Added: 50.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

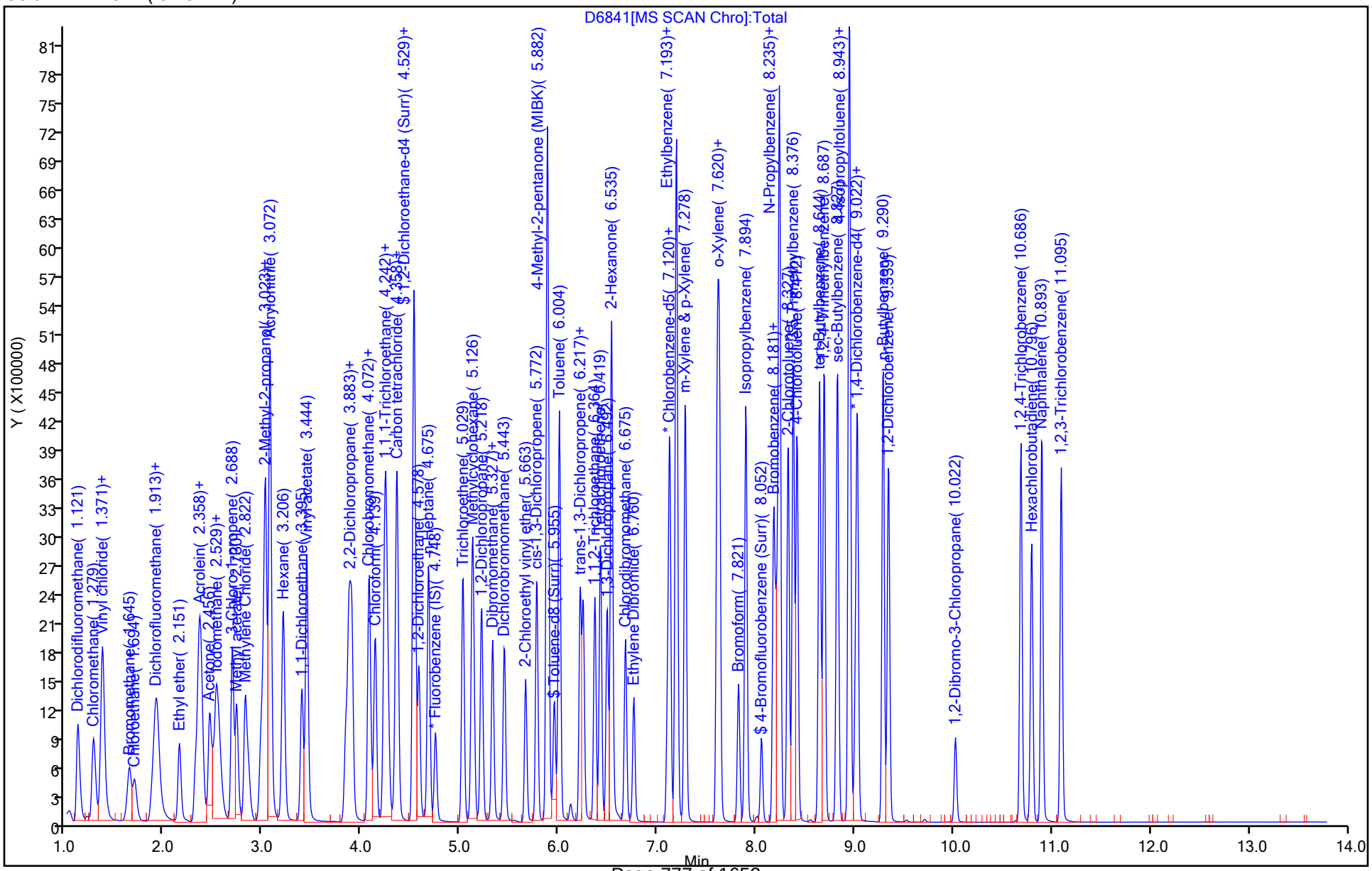
Report Date: 20-Sep-2024 11:49:45 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6841.d

Injection Date:	19-Sep-2024 18:02:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 7			Worklist Smp#:	20
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Lims ID: IC 0.4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Sep-2024 00:18:30 ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.4
Misc. Info.: 480-0120124-047
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 10:39:07

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	4.748	4.748	0.000	98	190760	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	375819	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	433411	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	308036	25.0	25.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	173988	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	5.949	5.955	-0.006	94	896455	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	312695	25.0	24.8	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	96	7836	0.4000	0.5106	
12 Chloromethane	50	1.280	1.280	0.000	97	8711	0.4000	0.5109	
13 Vinyl chloride	62	1.359	1.359	0.000	94	4870	0.4000	0.4640	
144 Butadiene	54	1.371	1.377	-0.006	96	5479	0.4000	0.5256	
14 Bromomethane	94	1.645	1.645	0.000	70	4646	0.4000	0.5850	M
15 Chloroethane	64	1.694	1.700	-0.006	84	2388	0.4000	0.4524	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	92	7784	0.4000	0.4547	
17 Trichlorofluoromethane	101	1.926	1.914	0.012	70	6319	0.4000	0.4595	
18 Ethyl ether	59	2.151	2.151	0.000	96	2732	0.4000	0.4039	
20 Acrolein	56	2.316	2.316	0.000	0	2019	2.00	1.86	M
22 1,1-Dichloroethene	96	2.353	2.359	-0.006	95	2817	0.4000	0.3583	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.359	2.359	0.000	68	3410	0.4000	0.3882	
23 Acetone	43	2.456	2.462	-0.006	97	8948	2.00	2.22	
25 Iodomethane	142	2.499	2.517	-0.018	95	7554	0.4000	0.3966	
26 Carbon disulfide	76	2.535	2.548	-0.013	98	11674	0.4000	0.4074	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	88	6950	0.4000	0.4008	
27 Methyl acetate	43	2.743	2.737	0.006	97	7902	0.8000	0.7722	
30 Methylene Chloride	84	2.822	2.822	0.000	97	12046	0.4000	0.4164	
31 2-Methyl-2-propanol	59	2.974	2.980	-0.006	93	4962	4.00	3.97	
32 Methyl tert-butyl ether	73	3.011	3.017	-0.006	97	9929	0.4000	0.3980	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	96	3567	0.4000	0.3976	
33 Acrylonitrile	53	3.078	3.072	0.006	0	18185	4.00	3.99	M
35 Hexane	57	3.206	3.206	0.000	91	5955	0.4000	0.4396	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	92	7673	0.4000	0.4213	
37 Vinyl acetate	43	3.456	3.444	0.012	0	15733	0.8000	0.6639	M
44 2,2-Dichloropropane	77	3.846	3.846	0.000	86	3792	0.4000	0.3860	
45 cis-1,2-Dichloroethene	96	3.877	3.877	0.000	81	4198	0.4000	0.4158	
43 2-Butanone (MEK)	43	3.919	3.901	0.018	0	11435	2.00	1.86	M
48 Chlorobromomethane	128	4.072	4.072	0.000	93	2336	0.4000	0.3978	
49 Tetrahydrofuran	42	4.096	4.084	0.012	88	4031	0.8000	0.9090	
50 Chloroform	83	4.139	4.139	0.000	95	10254	0.4000	0.5619	
51 1,1,1-Trichloroethane	97	4.236	4.236	0.000	0	5340	0.4000	0.3813	M
52 Cyclohexane	56	4.242	4.242	0.000	93	6816	0.4000	0.4145	
55 Carbon tetrachloride	117	4.346	4.352	-0.006	94	5206	0.4000	0.3940	
54 1,1-Dichloropropene	75	4.364	4.358	0.006	89	4894	0.4000	0.4053	
57 Benzene	78	4.529	4.529	0.000	92	14701	0.4000	0.4319	
53 Isobutyl alcohol	43	4.547	4.535	0.012	0	6192	10.0	10.2	M
58 1,2-Dichloroethane	62	4.584	4.584	0.000	92	6150	0.4000	0.4173	
59 n-Heptane	43	4.681	4.675	0.006	97	8010	0.4000	0.4802	
62 Trichloroethene	95	5.029	5.029	0.000	91	4156	0.4000	0.4264	
64 Methylcyclohexane	83	5.126	5.126	0.000	95	5358	0.4000	0.4087	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	88	3824	0.4000	0.3887	
67 Dibromomethane	93	5.334	5.328	0.006	96	2503	0.4000	0.3557	
66 1,4-Dioxane	88		5.328				ND	ND	
68 Dichlorobromomethane	83	5.449	5.449	0.000	0	4570	0.4000	0.3693	M
69 2-Chloroethyl vinyl ether	63	5.675	5.663	0.012	0	1690	0.4000	0.2719	M
72 cis-1,3-Dichloropropene	75	5.779	5.779	0.000	88	4532	0.4000	0.3275	
73 4-Methyl-2-pentanone (MIBK)	43	5.888	5.882	0.006	98	23444	2.00	1.78	
74 Toluene	92	6.004	6.004	0.000	96	9109	0.4000	0.4400	
77 trans-1,3-Dichloropropene	75	6.224	6.218	0.006	89	4086	0.4000	0.3356	
75 Ethyl methacrylate	69	6.254	6.248	0.006	87	2614	0.4000	0.2412	
79 1,1,2-Trichloroethane	83	6.370	6.364	0.006	85	2596	0.4000	0.3591	
81 Tetrachloroethene	166	6.419	6.419	0.000	92	4132	0.4000	0.4131	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	93	4776	0.4000	0.3709	
80 2-Hexanone	43	6.547	6.535	0.012	98	16394	2.00	1.76	
83 Chlorodibromomethane	129	6.675	6.675	0.000	86	3787	0.4000	0.3512	
84 Ethylene Dibromide	107	6.760	6.760	0.000	97	3598	0.4000	0.3775	
87 Chlorobenzene	112	7.126	7.126	0.000	96	10316	0.4000	0.4236	
88 Ethylbenzene	91	7.193	7.187	0.006	97	15805	0.4000	0.4229	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	71	3779	0.4000	0.3985	
90 m-Xylene & p-Xylene	106	7.284	7.278	0.006	97	5825	0.4000	0.4017	
91 o-Xylene	106	7.608	7.608	0.000	96	5514	0.4000	0.3882	
92 Styrene	104	7.632	7.626	0.006	92	8827	0.4000	0.3738	
95 Bromoform	173	7.821	7.821	0.000	88	2678	0.4000	0.3615	
94 Isopropylbenzene	105	7.900	7.894	0.006	96	12908	0.4000	0.3703	
101 Bromobenzene	156	8.181	8.181	0.000	87	4680	0.4000	0.3980	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	88	5544	0.4000	0.4105	
99 N-Propylbenzene	91	8.236	8.235	0.001	98	17823	0.4000	0.3896	
100 1,2,3-Trichloropropane	110	8.242	8.235	0.007	82	1353	0.4000	0.3952	
98 trans-1,4-Dichloro-2-butene	53	8.254	8.242	0.012	0	299	0.4000	0.7400	M
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	4076	0.4000	0.4027	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	93	11969	0.4000	0.3664	
105 4-Chlorotoluene	126	8.418	8.412	0.006	95	3883	0.4000	0.3707	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	2117	0.4000	0.3385	
107 1,2,4-Trimethylbenzene	105	8.693	8.687	0.006	96	12945	0.4000	0.3819	

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	8.821	8.821	0.000	95	16352	0.4000	0.3843	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	96	13316	0.4000	0.3640	
111 1,3-Dichlorobenzene	146	8.955	8.949	0.006	95	9339	0.4000	0.4190	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	0	10470	0.4000	0.4486	M
115 n-Butylbenzene	91	9.290	9.290	0.000	97	12492	0.4000	0.3755	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	96	9194	0.4000	0.4151	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	80	683	0.4000	0.2845	
119 1,2,4-Trichlorobenzene	180	10.692	10.686	0.006	92	5750	0.4000	0.3645	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	90	3425	0.4000	0.4198	
121 Naphthalene	128	10.900	10.900	0.000	95	13369	0.4000	0.3561	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	0	6170	0.4000	0.3964	M
S 125 1,2-Dichloroethene, Total	1				0			0.8134	
S 126 1,3-Dichloropropene, Total	1				0			0.6630	
S 124 Xylenes, Total	1				0			0.7899	
S 123 Total BTEX	1				0			2.08	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00259	Amount Added:	0.40	Units: uL	
GAS CORP mix_00641	Amount Added:	0.40	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

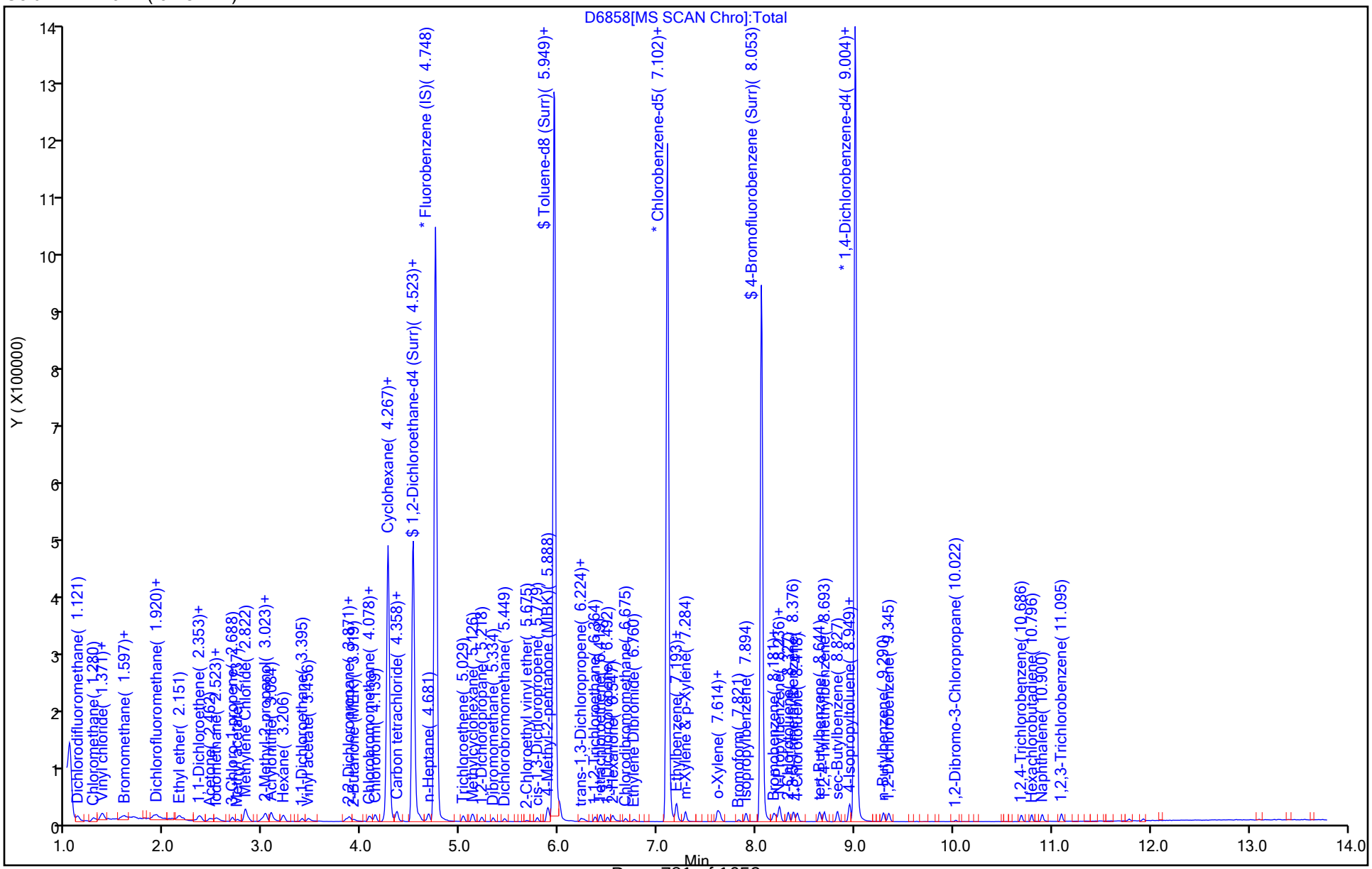
Report Date: 20-Sep-2024 11:50:40 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d

Injection Date:	20-Sep-2024 00:18:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 0.4			Worklist Smp#:	47
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	46
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

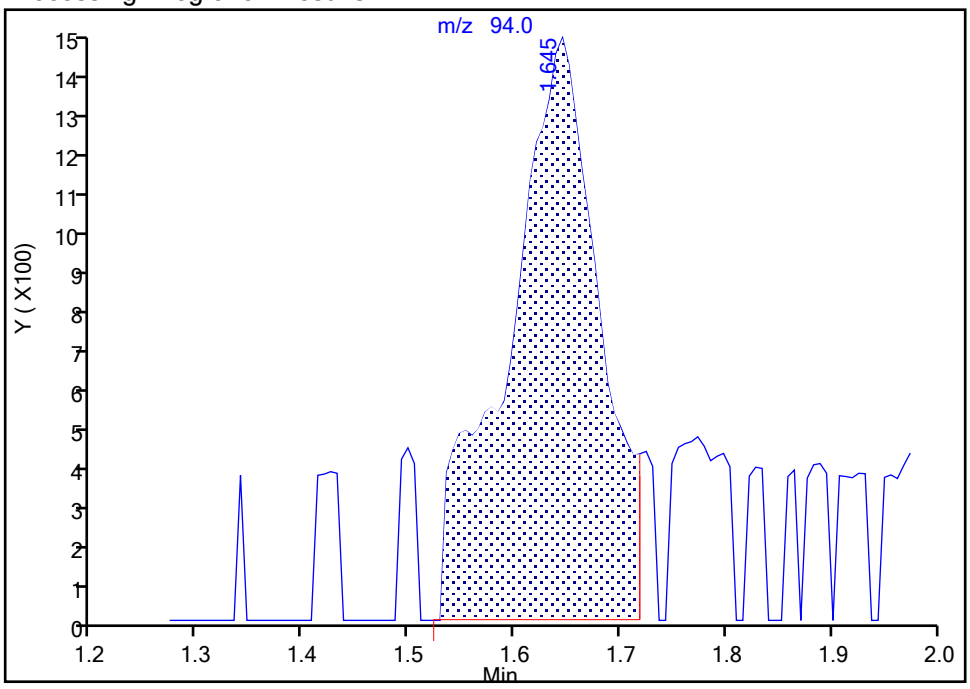
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

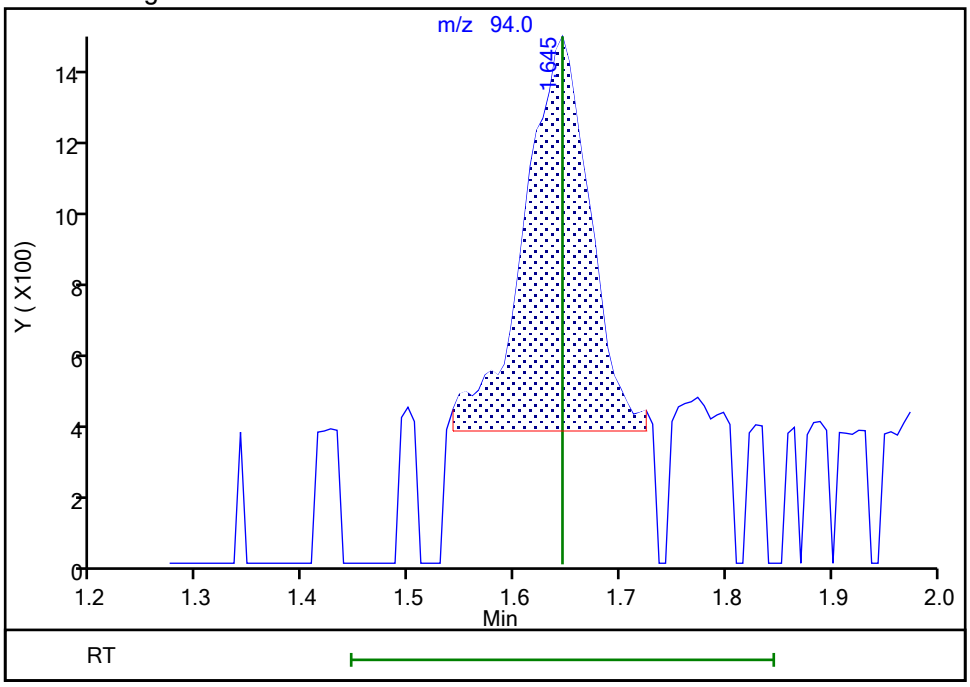
Processing Integration Results

RT: 1.65
Area: 8732
Amount: 0.400000
Amount Units: ug/L



Manual Integration Results

RT: 1.65
Area: 4646
Amount: 0.584977
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:12 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

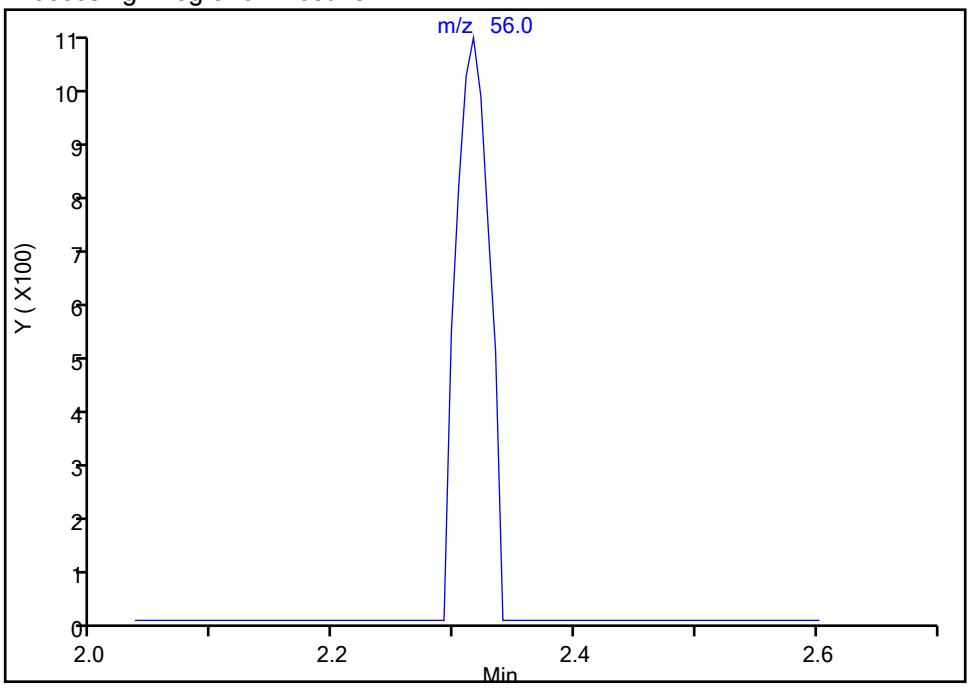
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

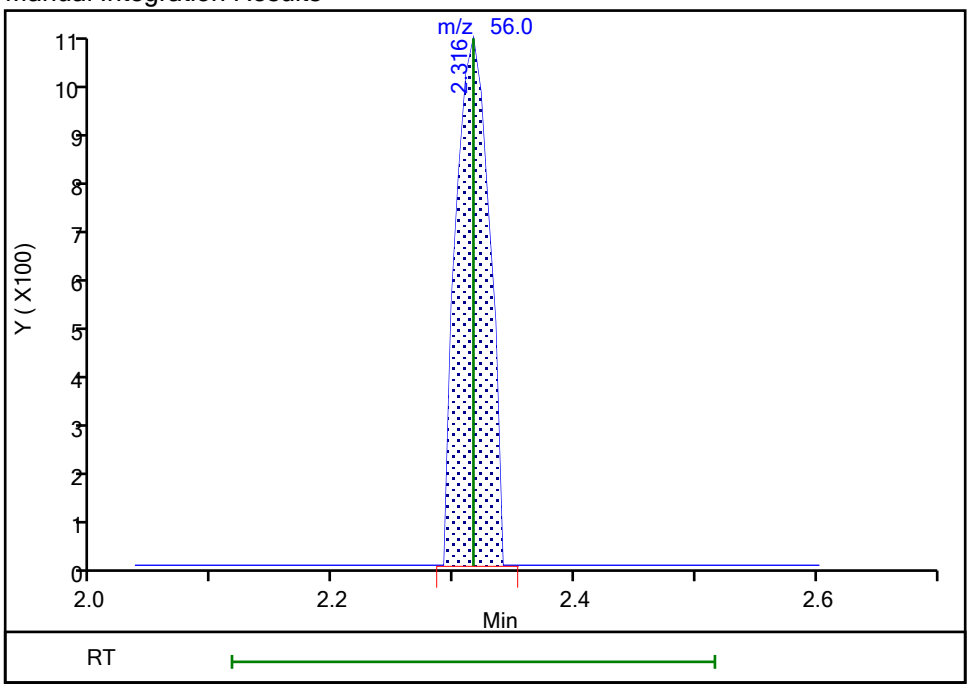
Not Detected
Expected RT: 2.32

Processing Integration Results



Manual Integration Results

RT: 2.32
Area: 2019
Amount: 1.856024
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:20 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

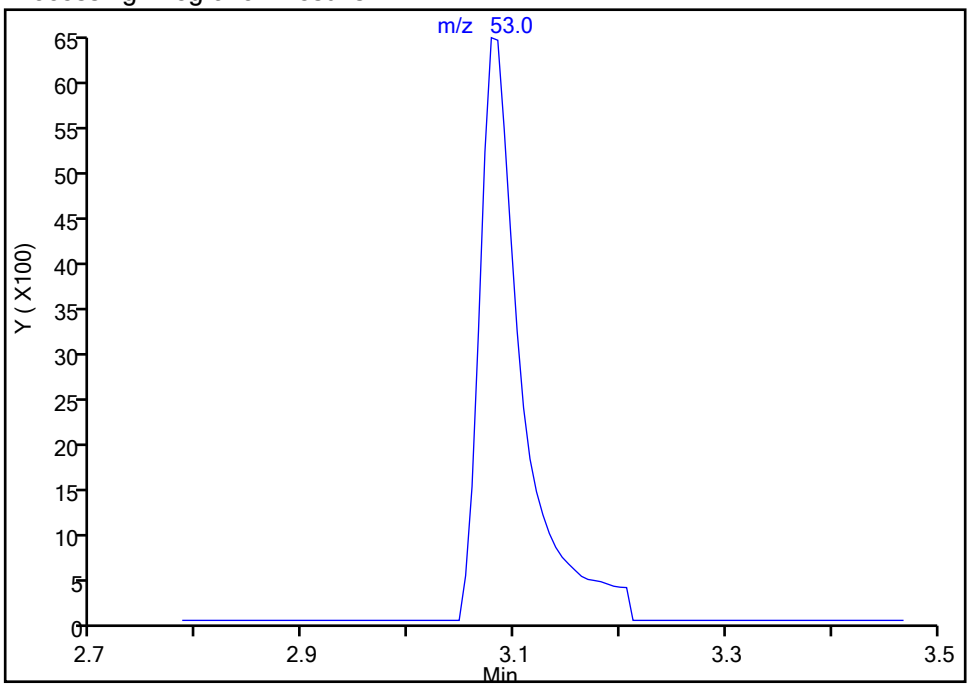
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

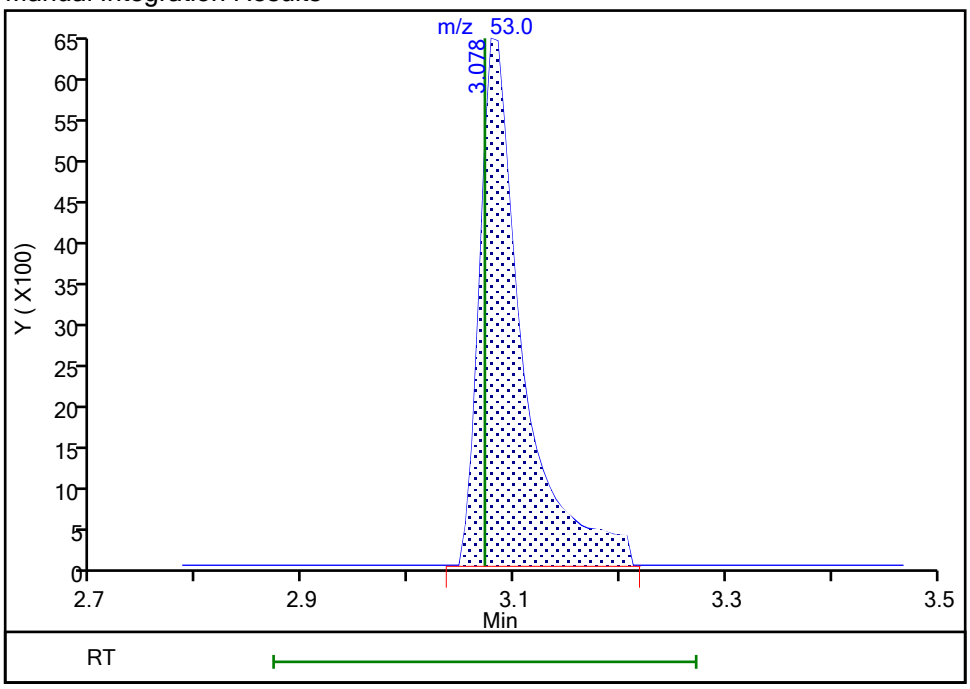
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 18185
Amount: 3.991399
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:32 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

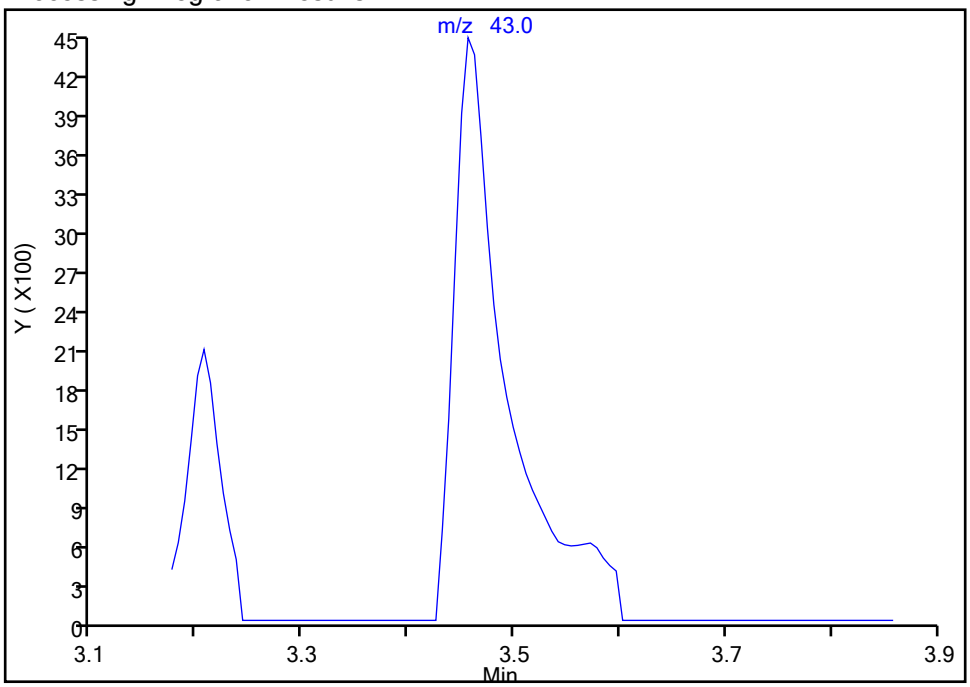
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

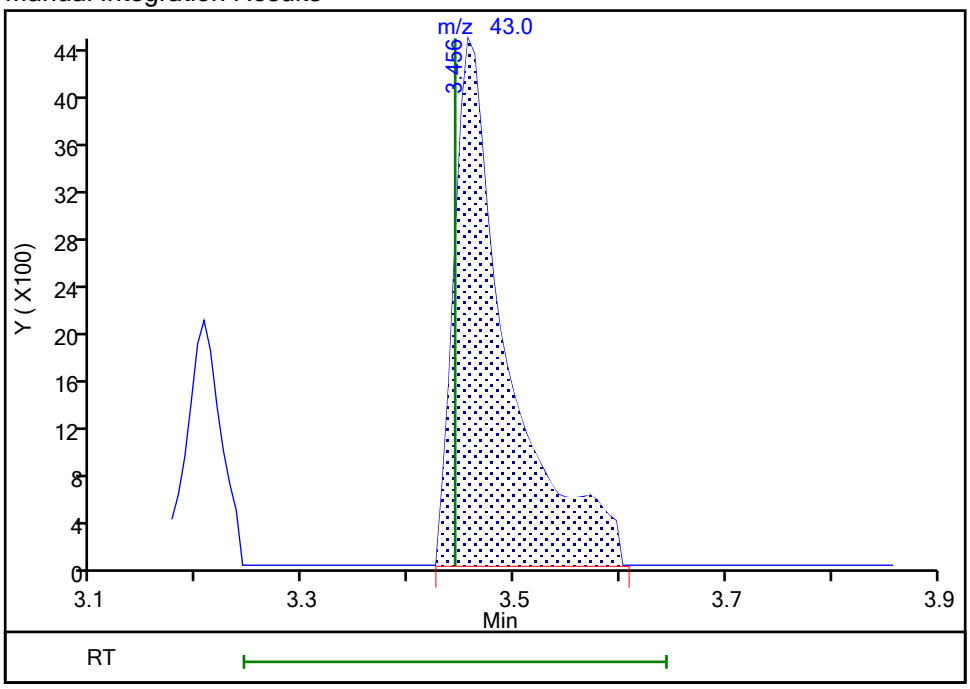
Not Detected
Expected RT: 3.44

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 15733
Amount: 0.663910
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:38 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

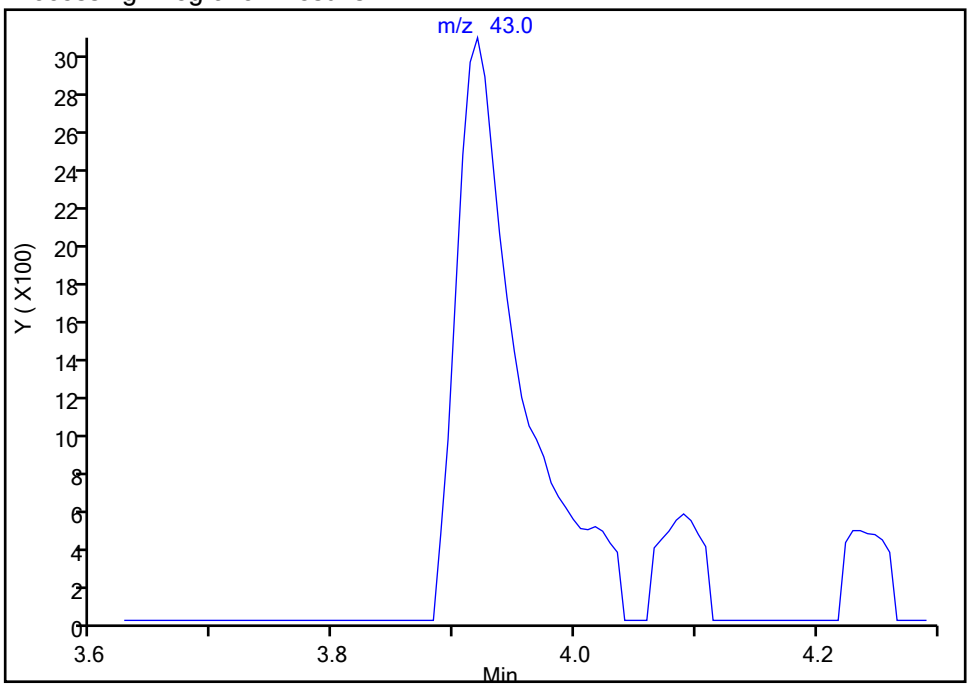
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

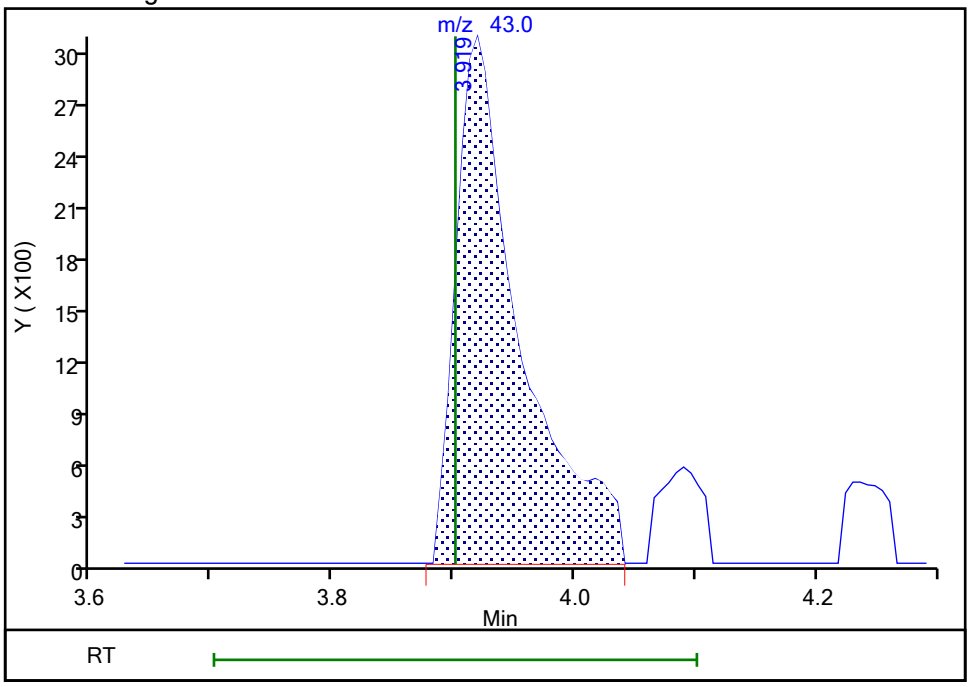
Not Detected
Expected RT: 3.90

Processing Integration Results



Manual Integration Results

RT: 3.92
Area: 11435
Amount: 1.856911
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:44 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

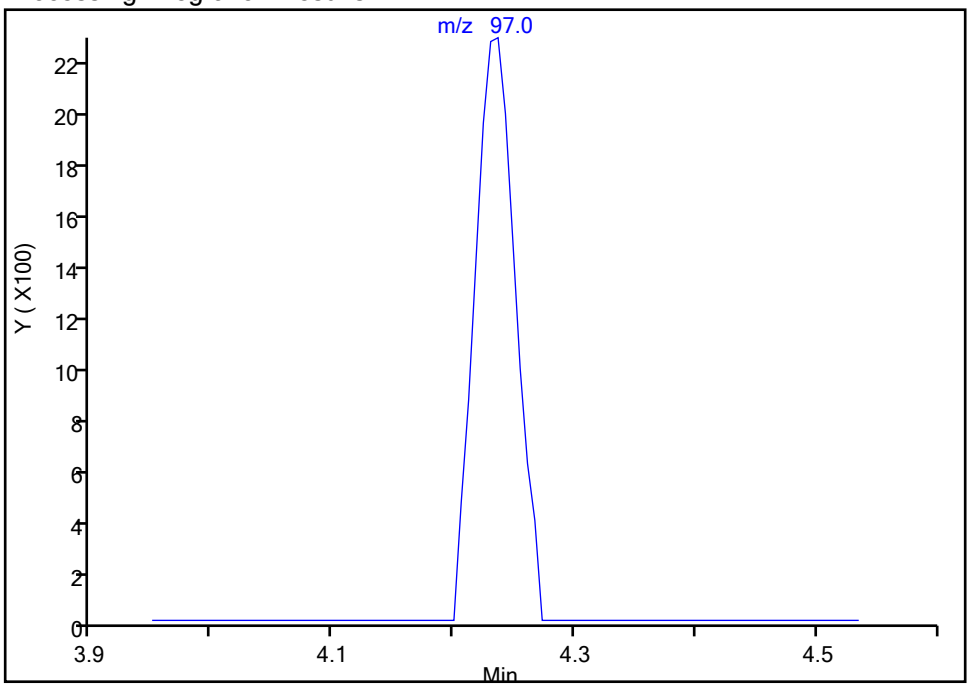
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Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

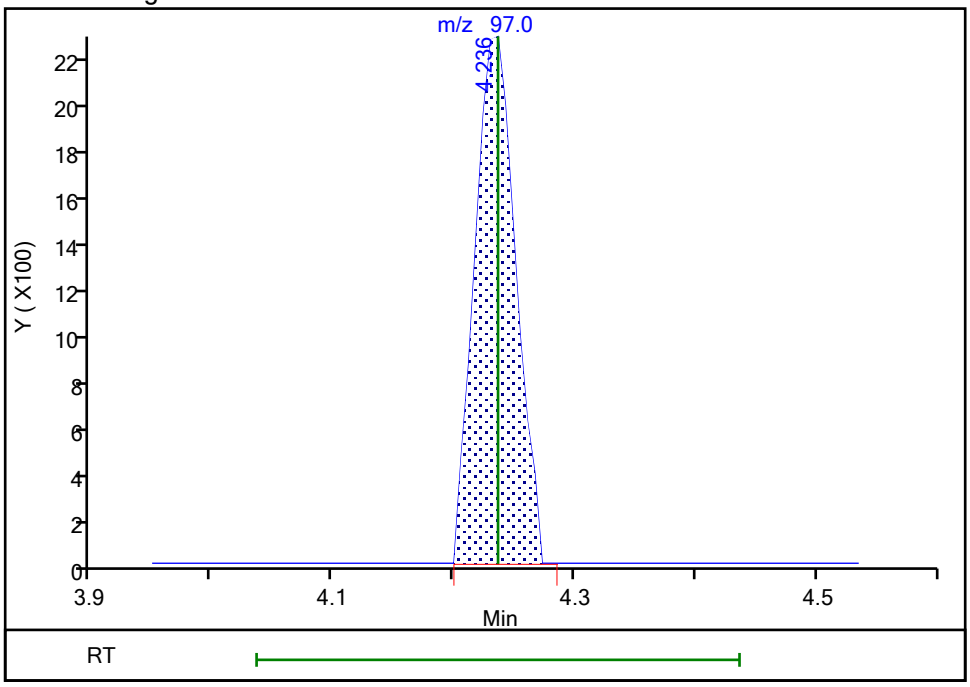
Not Detected
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 4.24
Area: 5340
Amount: 0.381292
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:51 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

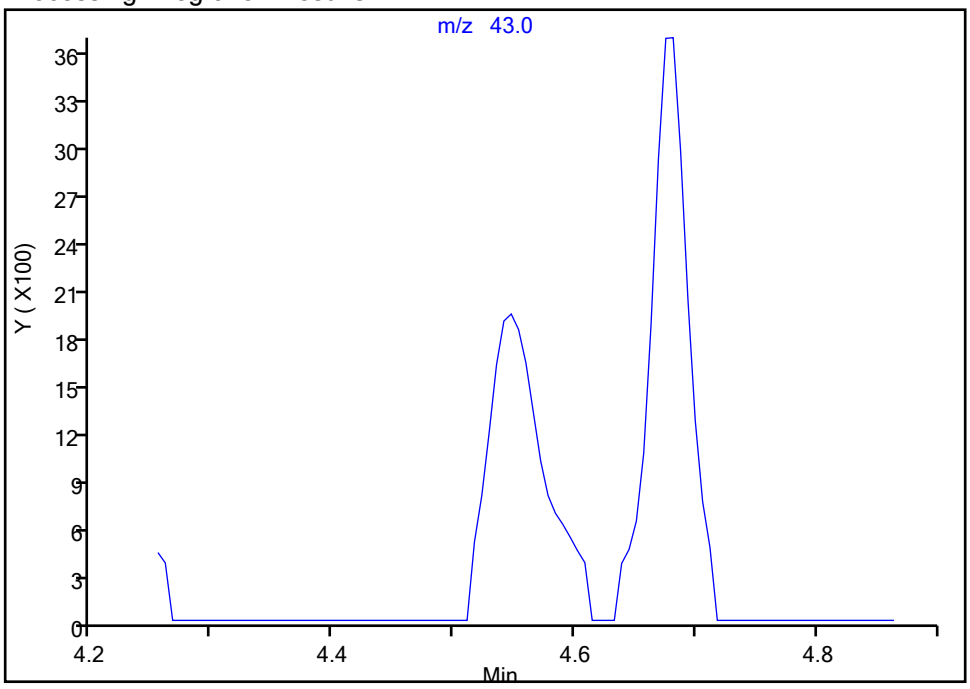
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

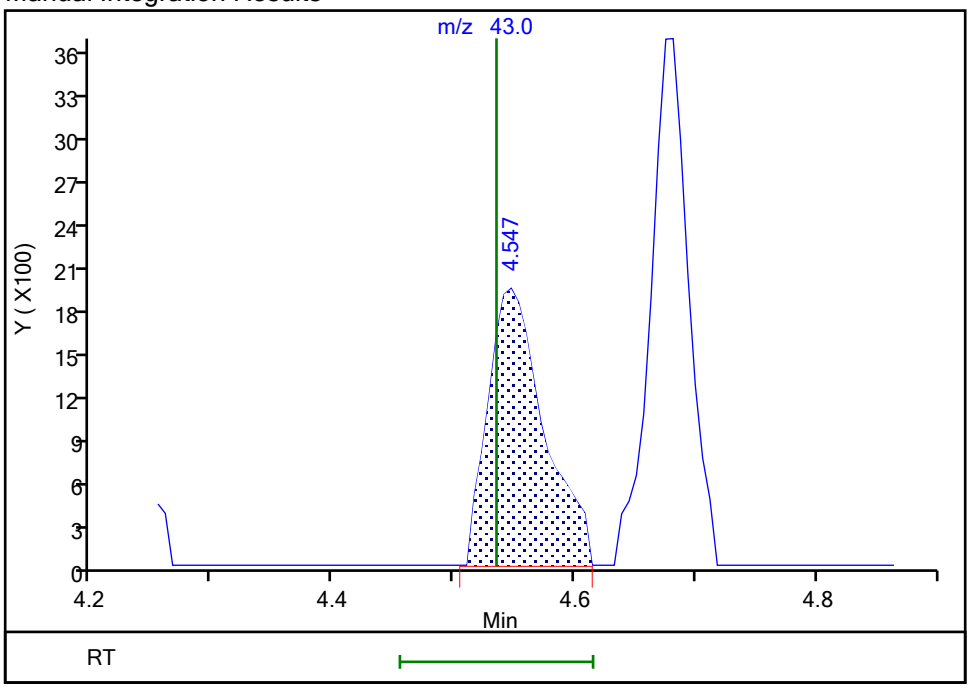
Not Detected
Expected RT: 4.53

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 6192
Amount: 10.217077
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:47:58 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

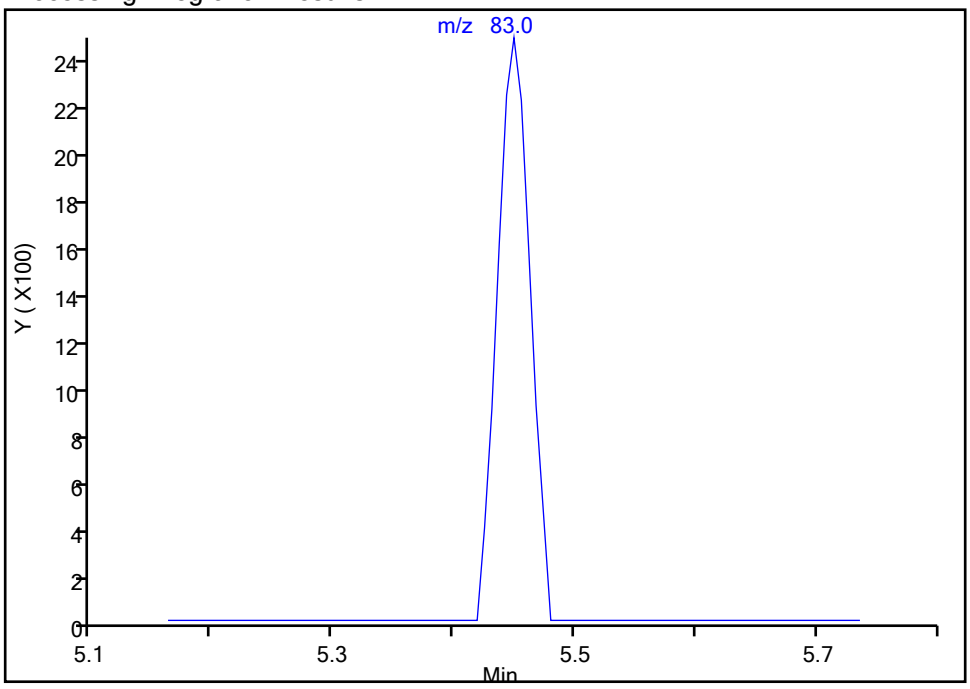
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

68 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

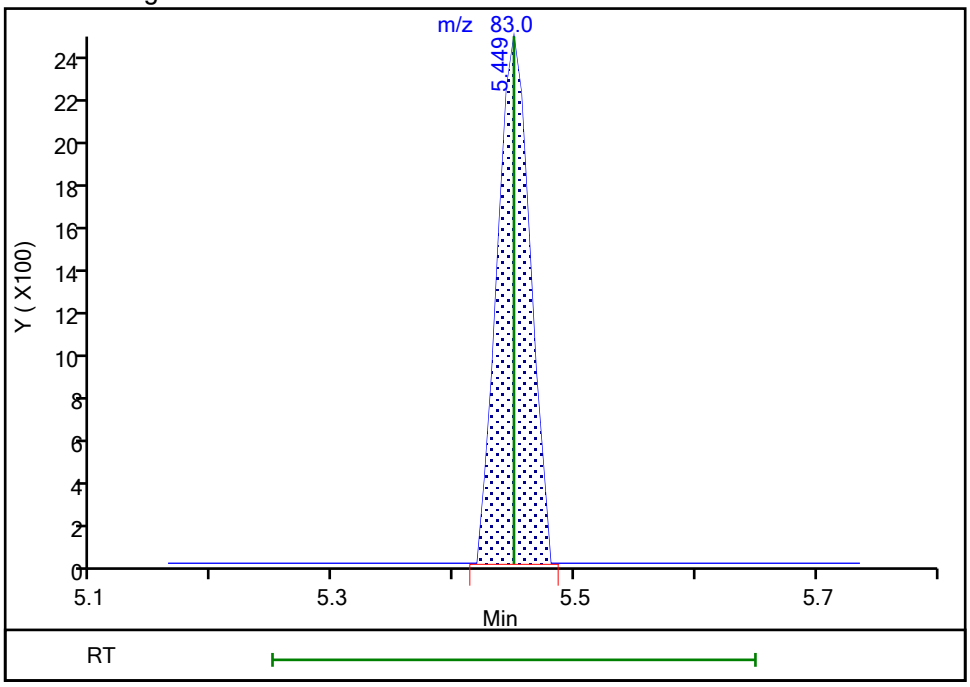
Not Detected
Expected RT: 5.45

Processing Integration Results



Manual Integration Results

RT: 5.45
Area: 4570
Amount: 0.369345
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:48:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

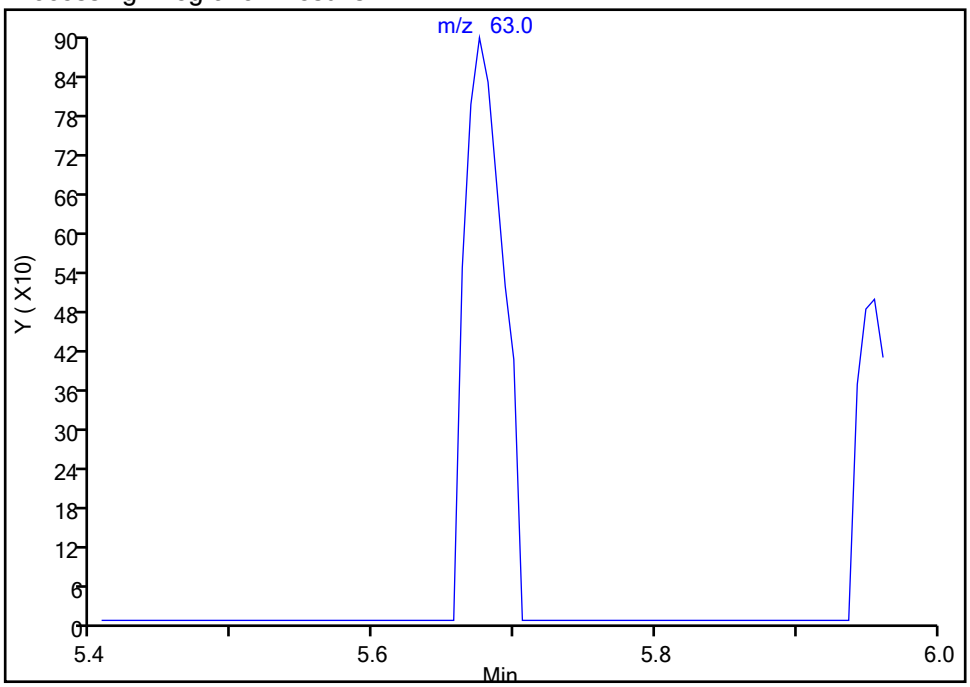
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

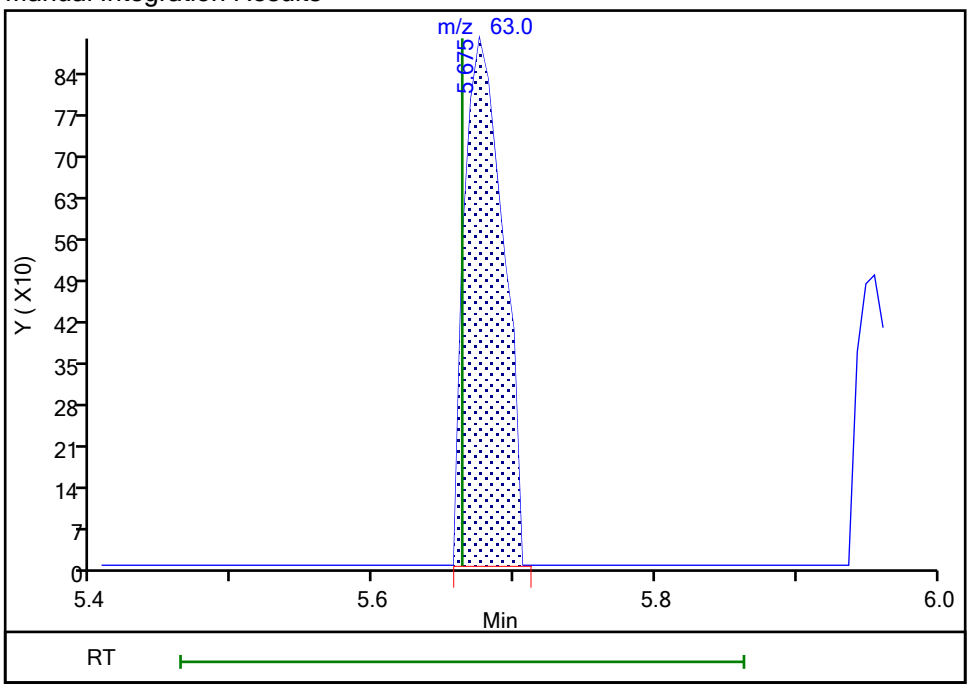
Not Detected
Expected RT: 5.66

Processing Integration Results



Manual Integration Results

RT: 5.68
Area: 1690
Amount: 0.271928
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:48:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

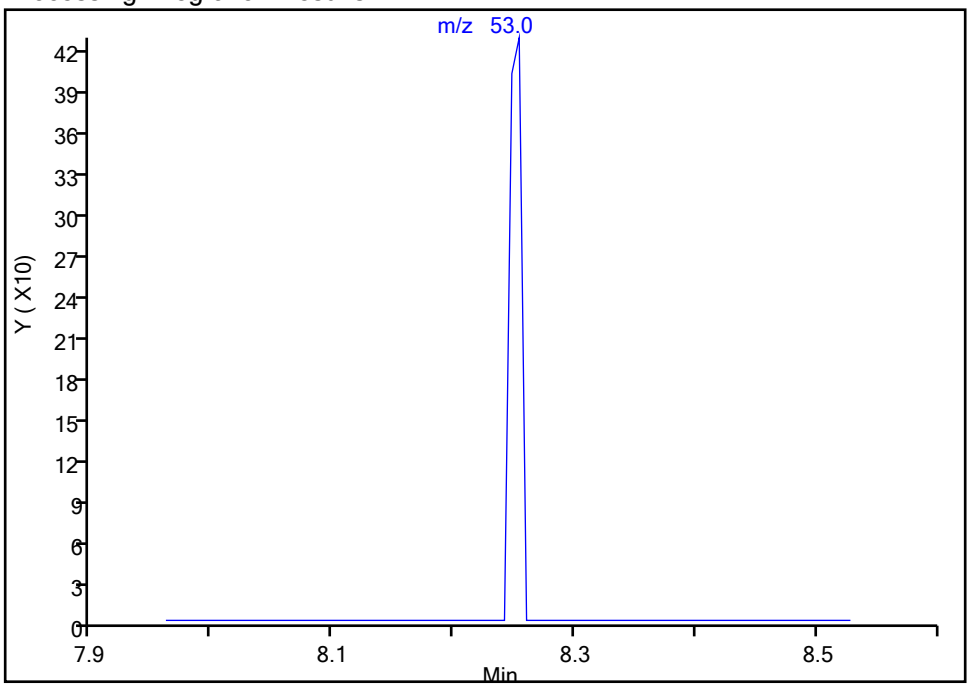
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Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

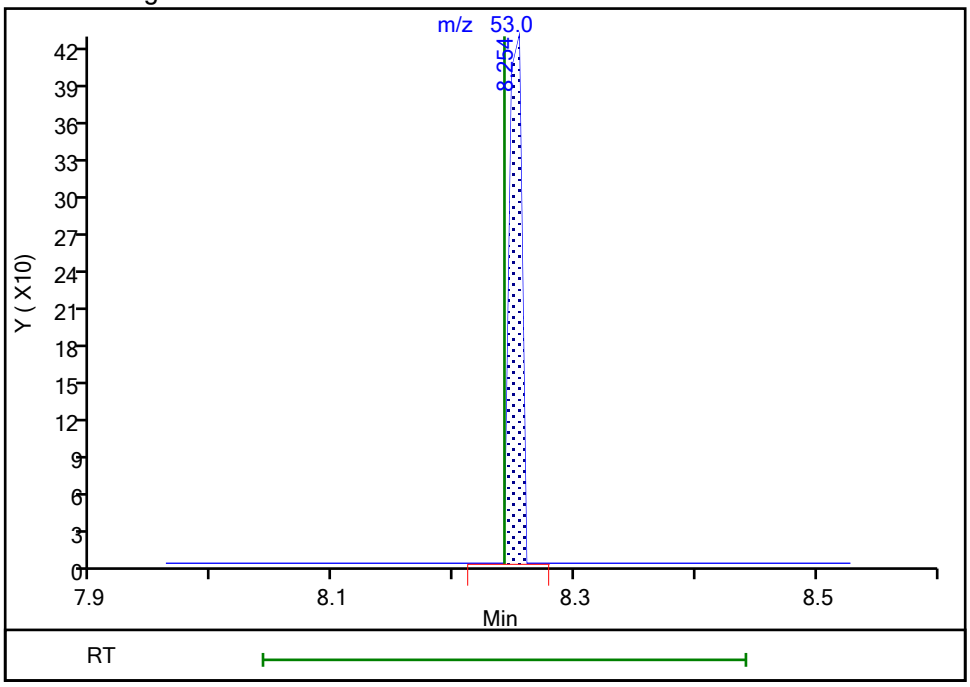
Not Detected
Expected RT: 8.24

Processing Integration Results



Manual Integration Results

RT: 8.25
Area: 299
Amount: 0.740039
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:48:27 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

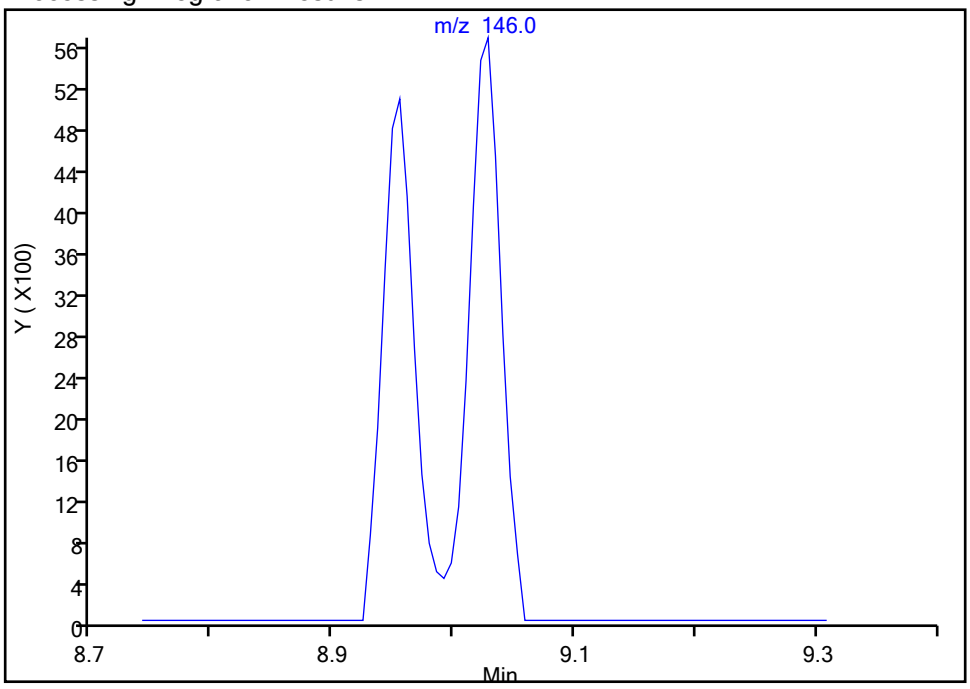
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Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

113 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

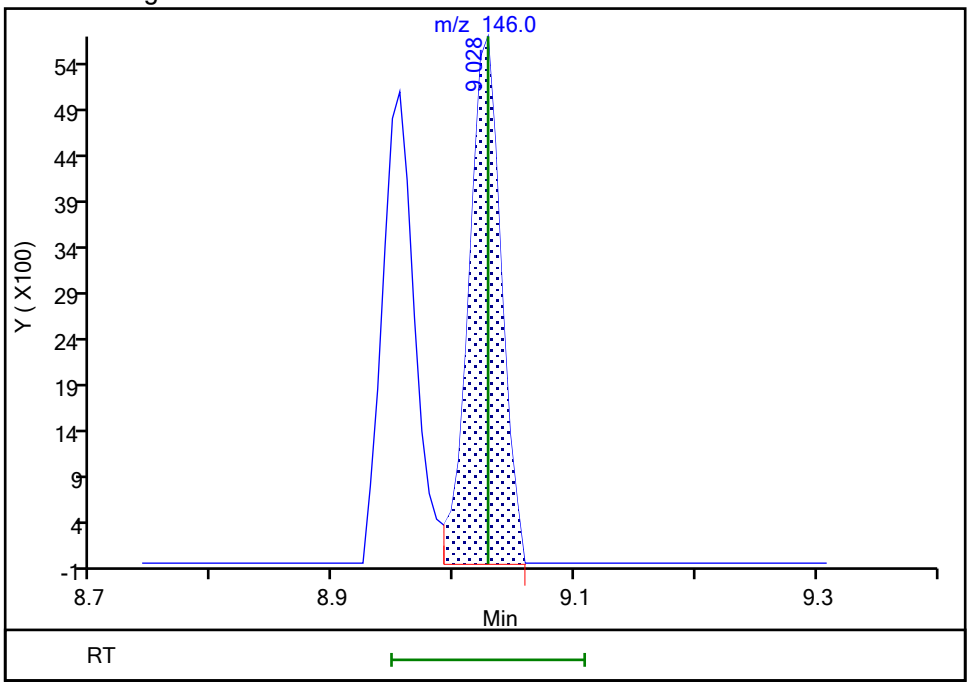
Not Detected
Expected RT: 9.03

Processing Integration Results



Manual Integration Results

RT: 9.03
Area: 10470
Amount: 0.448607
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:48:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

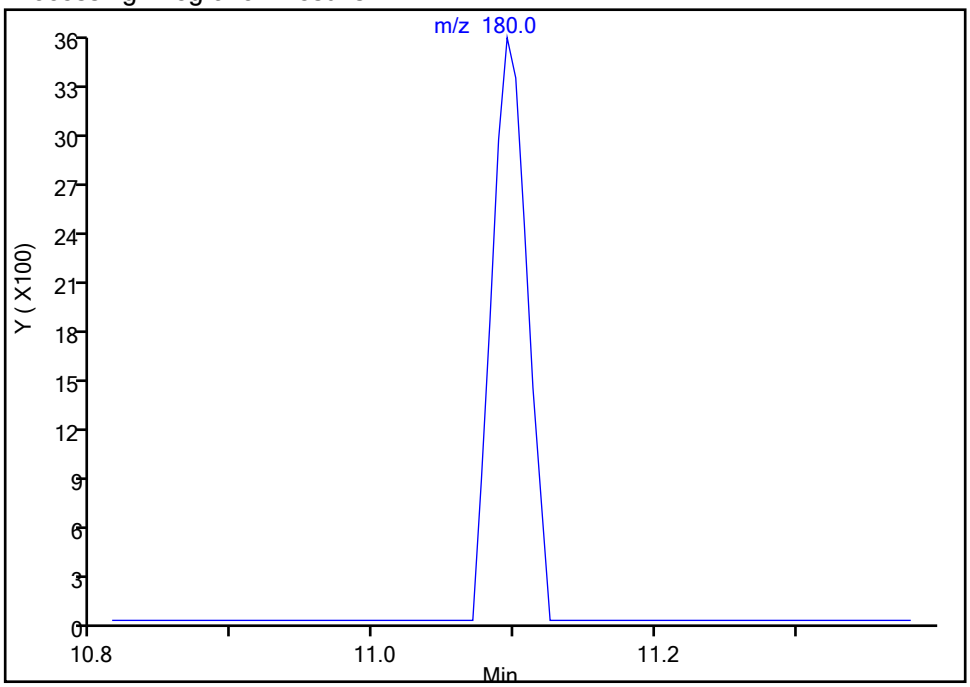
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6858.d
Injection Date: 20-Sep-2024 00:18:30 Instrument ID: HP5975D
Lims ID: IC 0.4
Client ID:
Operator ID: LH ALS Bottle#: 46 Worklist Smp#: 47
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

122 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

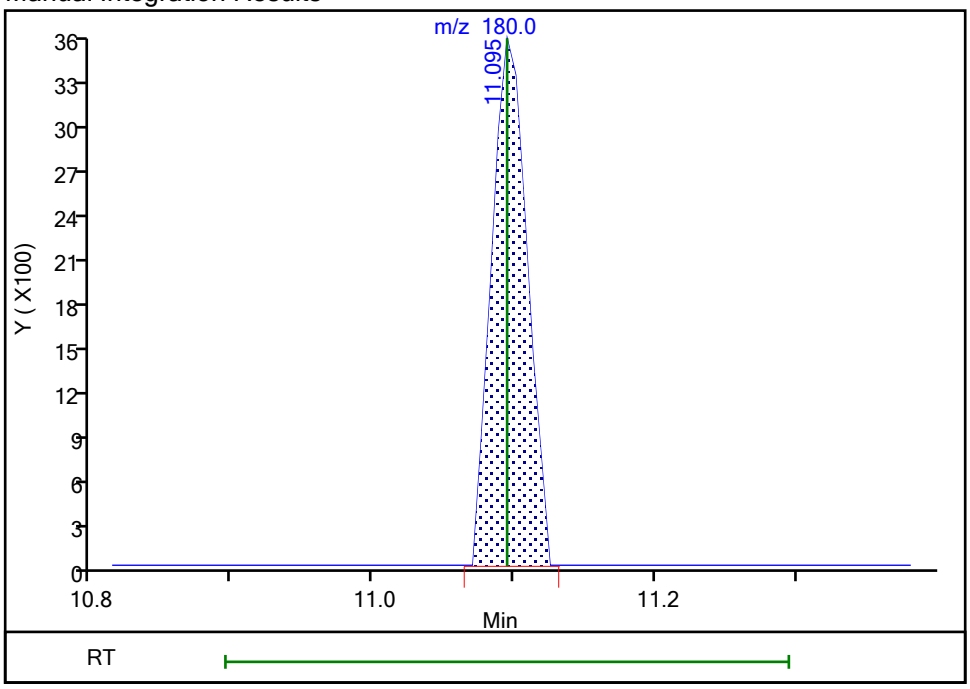
Not Detected
Expected RT: 11.09

Processing Integration Results



Manual Integration Results

RT: 11.09
Area: 6170
Amount: 0.396421
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:48:50 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6859.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Sep-2024 00:40:30 ALS Bottle#: 47 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0120124-048
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:58 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 10:50:00

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	4.748	4.748	0.000	98	189279	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.102	-0.001	87	371339	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	422897	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	303581	25.0	24.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	172722	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	888120	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	311504	25.0	25.0	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	98	16072	1.00	1.06	
12 Chloromethane	50	1.279	1.280	-0.001	98	17046	1.00	1.01	
13 Vinyl chloride	62	1.359	1.359	0.000	96	11052	1.00	1.06	
144 Butadiene	54	1.371	1.377	-0.006	97	11877	1.00	1.15	
14 Bromomethane	94	1.633	1.645	-0.012	92	9372	1.00	1.19	M
15 Chloroethane	64	1.694	1.700	-0.006	90	5783	1.00	1.10	
16 Dichlorofluoromethane	67	1.901	1.907	-0.006	94	17749	1.00	1.04	
17 Trichlorofluoromethane	101	1.889	1.914	-0.025	78	14364	1.00	1.05	
18 Ethyl ether	59	2.151	2.151	0.000	93	7486	1.00	1.12	
20 Acrolein	56	2.316	2.316	0.000	0	5036	5.00	4.67	M
22 1,1-Dichloroethene	96	2.352	2.359	-0.007	95	8073	1.00	1.03	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.359	2.359	-0.001	80	9113	1.00	1.05	
23 Acetone	43	2.456	2.462	-0.006	98	18332	5.00	4.58	
25 Iodomethane	142	2.499	2.517	-0.018	98	18756	1.00	0.99	
26 Carbon disulfide	76	2.529	2.548	-0.019	100	28578	1.00	1.01	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	16746	1.00	0.9732	
27 Methyl acetate	43	2.736	2.737	-0.001	100	20247	2.00	1.99	
30 Methylene Chloride	84	2.822	2.822	0.000	95	17202	1.00	0.9788	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	95	8469	10.0	6.83	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	99	24167	1.00	0.9764	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	94	8846	1.00	0.99	
33 Acrylonitrile	53	3.078	3.072	0.006	96	44363	10.0	9.81	
35 Hexane	57	3.206	3.206	0.000	93	14879	1.00	1.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	94	18001	1.00	1.00	
37 Vinyl acetate	43	3.456	3.444	0.012	96	38626	2.00	1.64	
44 2,2-Dichloropropane	77	3.840	3.846	-0.006	91	10489	1.00	1.08	
45 cis-1,2-Dichloroethene	96	3.877	3.877	-0.001	83	10023	1.00	1.00	
43 2-Butanone (MEK)	43	3.913	3.901	0.012	98	27368	5.00	4.48	
48 Chlorobromomethane	128	4.072	4.072	0.000	95	5608	1.00	0.9624	
49 Tetrahydrofuran	42	4.096	4.084	0.012	90	8622	2.00	1.96	
50 Chloroform	83	4.139	4.139	0.000	95	20668	1.00	1.14	
51 1,1,1-Trichloroethane	97	4.230	4.236	-0.006	98	14172	1.00	1.02	
52 Cyclohexane	56	4.242	4.242	0.000	97	17207	1.00	1.05	
55 Carbon tetrachloride	117	4.346	4.352	-0.006	96	13464	1.00	1.03	
54 1,1-Dichloropropene	75	4.364	4.358	0.006	93	12582	1.00	1.05	
57 Benzene	78	4.529	4.529	0.000	95	34082	1.00	1.01	
53 Isobutyl alcohol	43	4.547	4.535	0.012	90	11231	25.0	18.7	
58 1,2-Dichloroethane	62	4.584	4.584	0.000	96	14756	1.00	1.01	
59 n-Heptane	43	4.681	4.675	0.006	96	19312	1.00	1.17	
62 Trichloroethene	95	5.029	5.029	0.000	96	9591	1.00	0.99	
64 Methylcyclohexane	83	5.126	5.126	0.000	97	13405	1.00	1.03	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	88	9277	1.00	0.9504	
67 Dibromomethane	93	5.334	5.328	0.006	95	6725	1.00	0.9632	
66 1,4-Dioxane	88		5.328				ND	ND	
68 Dichlorobromomethane	83	5.449	5.449	0.000	96	11821	1.00	0.9628	
69 2-Chloroethyl vinyl ether	63	5.675	5.663	0.012	88	4479	1.00	0.7263	
72 cis-1,3-Dichloropropene	75	5.779	5.779	0.000	91	12481	1.00	0.9089	
73 4-Methyl-2-pentanone (MIBK)	43	5.888	5.882	0.006	98	59304	5.00	4.56	
74 Toluene	92	6.004	6.004	0.000	98	20914	1.00	1.02	
77 trans-1,3-Dichloropropene	75	6.224	6.218	0.006	90	10488	1.00	0.8717	
75 Ethyl methacrylate	69	6.254	6.248	0.006	93	8635	1.00	0.8065	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	91	7240	1.00	1.01	
81 Tetrachloroethene	166	6.425	6.419	0.006	94	9865	1.00	1.00	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	92	12840	1.00	1.01	
80 2-Hexanone	43	6.541	6.535	0.006	98	42828	5.00	4.65	
83 Chlorodibromomethane	129	6.675	6.675	0.000	88	9746	1.00	0.9148	
84 Ethylene Dibromide	107	6.760	6.760	0.000	98	8704	1.00	0.9243	
87 Chlorobenzene	112	7.126	7.126	0.000	97	24336	1.00	1.01	
88 Ethylbenzene	91	7.193	7.187	0.006	98	37725	1.00	1.02	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	91	8934	1.00	0.9534	
90 m-Xylene & p-Xylene	106	7.284	7.278	0.006	99	14265	1.00	1.00	
91 o-Xylene	106	7.607	7.608	-0.001	97	13537	1.00	0.9645	
92 Styrene	104	7.632	7.626	0.006	95	22575	1.00	0.9674	
95 Bromoform	173	7.827	7.821	0.006	93	6420	1.00	0.8770	
94 Isopropylbenzene	105	7.894	7.894	0.000	97	32830	1.00	0.9652	
101 Bromobenzene	156	8.181	8.181	0.000	91	10816	1.00	0.9428	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	91	12901	1.00	0.9791	
99 N-Propylbenzene	91	8.235	8.235	0.000	99	43940	1.00	0.9843	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	85	3052	1.00	0.9136	
98 trans-1,4-Dichloro-2-butene	53	8.248	8.242	0.006	70	2175	1.00	1.20	
103 2-Chlorotoluene	126	8.327	8.327	0.000	96	9492	1.00	0.9611	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	31158	1.00	0.9776	
105 4-Chlorotoluene	126	8.418	8.412	0.006	96	10031	1.00	0.9815	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	5808	1.00	0.9518	
107 1,2,4-Trimethylbenzene	105	8.693	8.687	0.006	97	32102	1.00	0.9706	

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	8.827	8.821	0.006	95	40916	1.00	0.9855	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	98	34208	1.00	0.9583	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	97	21921	1.00	1.01	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	96	22788	1.00	1.00	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	30815	1.00	0.9494	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	98	21503	1.00	0.99	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	79	1735	1.00	0.7406	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	94	14009	1.00	0.9101	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	96	7797	1.00	0.9794	
121 Naphthalene	128	10.900	10.900	0.000	97	32751	1.00	0.8941	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	14968	1.00	0.9856	
S 125 1,2-Dichloroethene, Total	1				0			1.99	
S 126 1,3-Dichloropropene, Total	1				0			1.78	
S 124 Xylenes, Total	1				0			1.96	
S 123 Total BTEX	1				0			5.01	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00259	Amount Added:	1.00	Units: uL	
GAS CORP mix_00641	Amount Added:	1.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

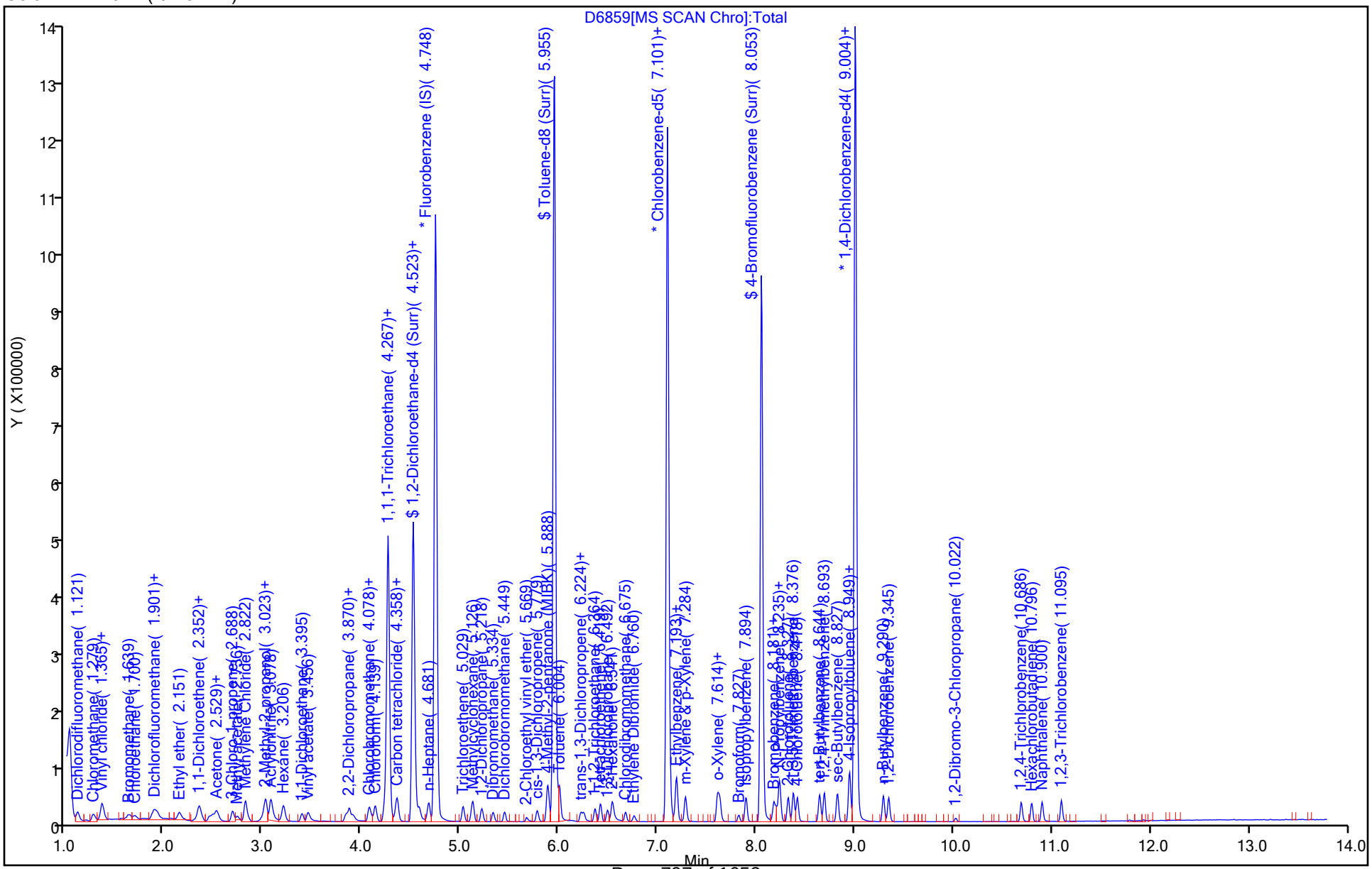
Report Date: 20-Sep-2024 11:50:58 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6859.d

Injection Date:	20-Sep-2024 00:40:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	48
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	47
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

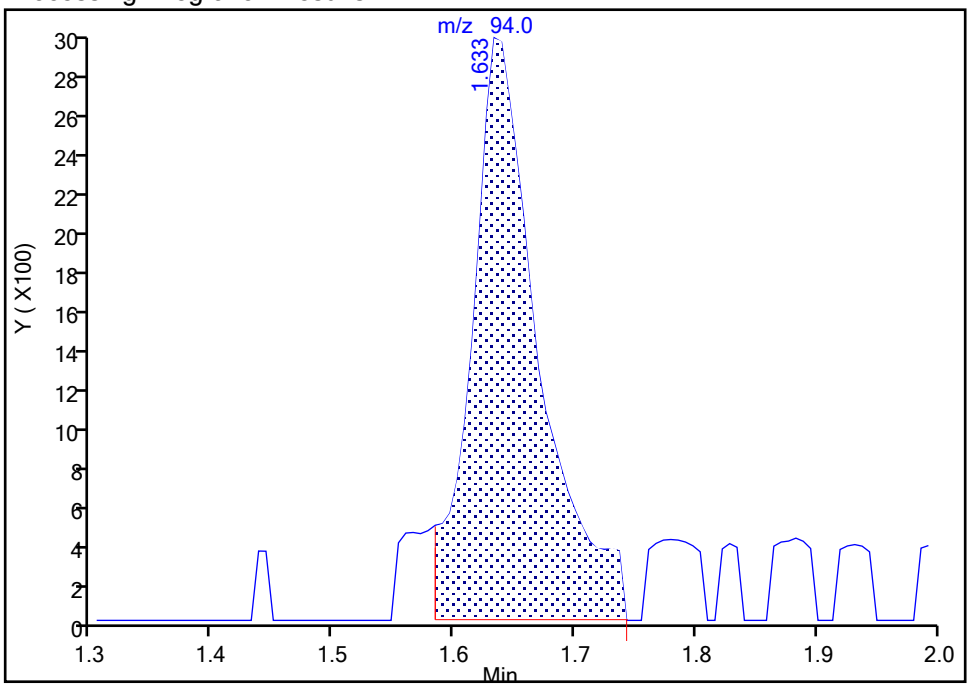
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Injection Date: 20-Sep-2024 00:40:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 47 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

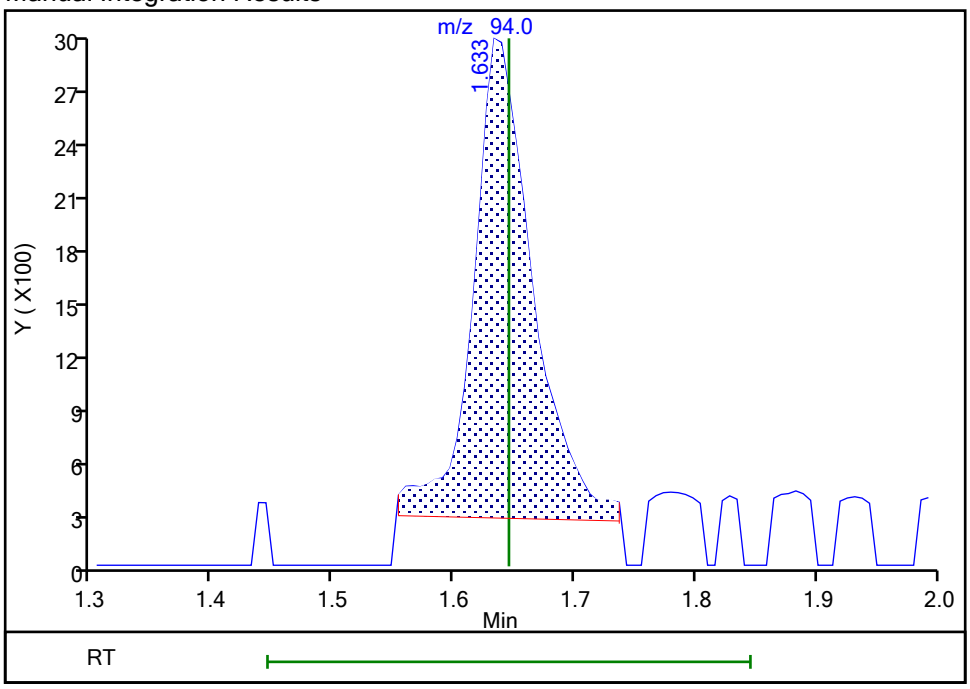
Processing Integration Results

RT: 1.63
Area: 11590
Amount: 1.002820
Amount Units: ug/L



Manual Integration Results

RT: 1.63
Area: 9372
Amount: 1.189259
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:49:21 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

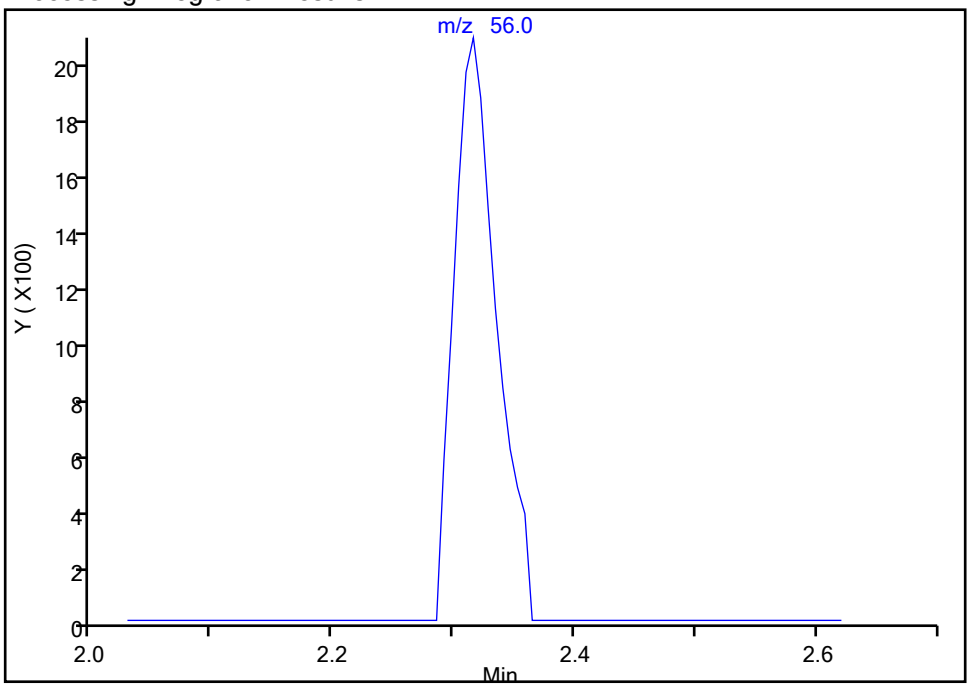
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Injection Date: 20-Sep-2024 00:40:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 47 Worklist Smp#: 48
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

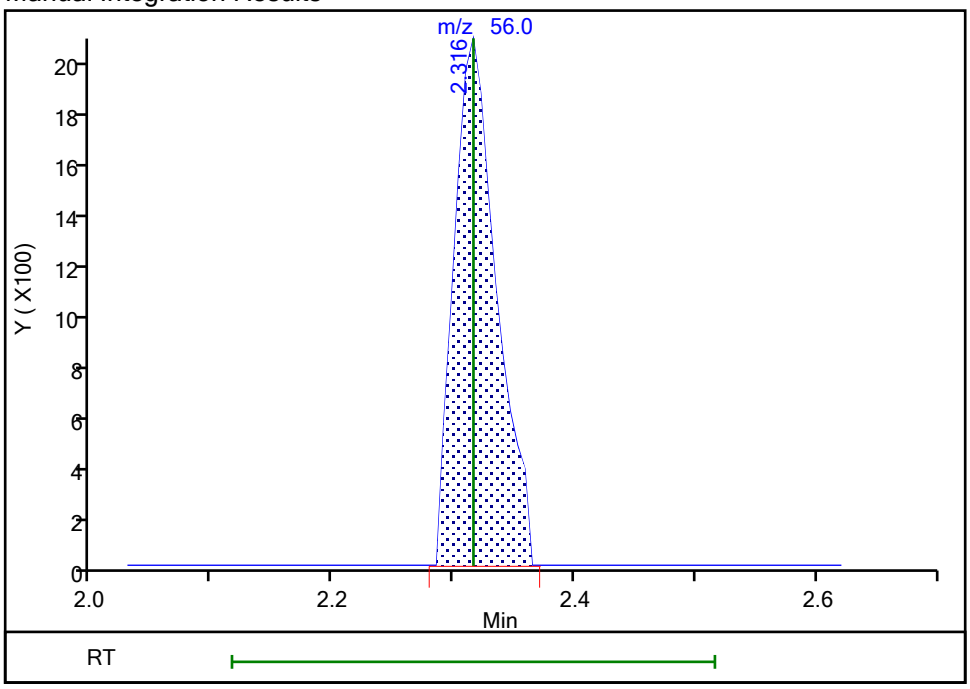
Not Detected
Expected RT: 2.32

Processing Integration Results



Manual Integration Results

RT: 2.32
Area: 5036
Amount: 4.665711
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:49:32 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Report Date: 20-Sep-2024 11:51:16 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Sep-2024 01:02:30 ALS Bottle#: 48 Worklist Smp#: 49
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0120124-049
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:51:15 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 10:51:44

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	4.748	4.748	0.000	98	188401	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	366687	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	431468	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	94	307821	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	172470	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	897108	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	311046	25.0	25.3	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	28975	2.00	1.91	
12 Chloromethane	50	1.279	1.280	-0.001	99	31046	2.00	1.84	
13 Vinyl chloride	62	1.359	1.359	0.000	98	19354	2.00	1.87	
144 Butadiene	54	1.371	1.377	-0.006	99	21443	2.00	2.08	
14 Bromomethane	94	1.645	1.645	0.000	90	14265	2.00	1.82	
15 Chloroethane	64	1.700	1.700	0.000	94	9877	2.00	1.89	
16 Dichlorofluoromethane	67	1.907	1.907	0.000	96	31700	2.00	1.88	
17 Trichlorofluoromethane	101	1.901	1.914	-0.013	89	26306	2.00	1.94	
18 Ethyl ether	59	2.151	2.151	0.000	96	12726	2.00	1.90	
20 Acrolein	56	2.316	2.316	0.000	0	9942	10.0	9.25	M
22 1,1-Dichloroethene	96	2.352	2.359	-0.007	95	16769	2.00	2.16	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.365	2.359	0.006	94	18683	2.00	2.15	
23 Acetone	43	2.462	2.462	0.000	97	39260	10.0	9.85	
25 Iodomethane	142	2.499	2.517	-0.018	99	38989	2.00	2.07	
26 Carbon disulfide	76	2.535	2.548	-0.013	100	59752	2.00	2.11	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	89	34604	2.00	2.02	
27 Methyl acetate	43	2.737	2.737	-0.001	100	39139	4.00	3.87	
30 Methylene Chloride	84	2.822	2.822	0.000	96	27254	2.00	2.07	
31 2-Methyl-2-propanol	59	2.980	2.980	0.000	98	23488	20.0	19.0	
32 Methyl tert-butyl ether	73	3.017	3.017	0.000	98	48746	2.00	1.98	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	95	18778	2.00	2.12	
33 Acrylonitrile	53	3.078	3.072	0.006	97	85471	20.0	19.0	
35 Hexane	57	3.206	3.206	0.000	95	27881	2.00	2.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	96	36663	2.00	2.04	
37 Vinyl acetate	43	3.450	3.444	0.006	97	81926	4.00	3.50	
44 2,2-Dichloropropane	77	3.840	3.846	-0.006	91	20308	2.00	2.09	
45 cis-1,2-Dichloroethene	96	3.877	3.877	0.000	85	20322	2.00	2.04	
43 2-Butanone (MEK)	43	3.907	3.901	0.006	97	58127	10.0	9.56	
48 Chlorobromomethane	128	4.072	4.072	0.000	97	11726	2.00	2.02	
49 Tetrahydrofuran	42	4.090	4.084	0.006	92	17416	4.00	3.98	
50 Chloroform	83	4.139	4.139	0.000	94	38785	2.00	2.15	
51 1,1,1-Trichloroethane	97	4.230	4.236	-0.006	98	29244	2.00	2.11	
52 Cyclohexane	56	4.242	4.242	0.000	97	34629	2.00	2.13	
55 Carbon tetrachloride	117	4.352	4.352	0.000	98	26268	2.00	2.01	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	95	25653	2.00	2.15	
57 Benzene	78	4.529	4.529	0.000	95	69485	2.00	2.07	
53 Isobutyl alcohol	43	4.541	4.535	0.006	93	27667	50.0	46.2	
58 1,2-Dichloroethane	62	4.584	4.584	0.000	96	28544	2.00	1.96	
59 n-Heptane	43	4.681	4.675	0.006	96	32177	2.00	1.95	
62 Trichloroethene	95	5.029	5.029	0.000	95	19954	2.00	2.07	
64 Methylcyclohexane	83	5.126	5.126	0.000	97	27732	2.00	2.14	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	19979	2.00	2.06	
67 Dibromomethane	93	5.327	5.328	-0.001	96	13249	2.00	1.91	
66 1,4-Dioxane	88	5.334	5.328	0.006	36	1974	40.0	37.9	
68 Dichlorobromomethane	83	5.449	5.449	0.000	97	24305	2.00	1.99	
69 2-Chloroethyl vinyl ether	63	5.675	5.663	0.012	92	10895	2.00	1.77	
72 cis-1,3-Dichloropropene	75	5.779	5.779	0.000	92	26383	2.00	1.93	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	123823	10.0	9.65	
74 Toluene	92	6.004	6.004	0.000	98	42767	2.00	2.12	
77 trans-1,3-Dichloropropene	75	6.218	6.218	0.000	96	21658	2.00	1.82	
75 Ethyl methacrylate	69	6.248	6.248	0.000	95	19276	2.00	1.82	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	91	14168	2.00	2.01	
81 Tetrachloroethene	166	6.419	6.419	0.000	96	20310	2.00	2.08	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	95	25123	2.00	2.00	
80 2-Hexanone	43	6.541	6.535	0.006	99	84735	10.0	9.32	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	19873	2.00	1.89	
84 Ethylene Dibromide	107	6.760	6.760	0.000	98	17345	2.00	1.87	
87 Chlorobenzene	112	7.126	7.126	0.000	95	48659	2.00	2.05	
88 Ethylbenzene	91	7.193	7.187	0.006	99	74183	2.00	2.03	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	93	17844	2.00	1.93	
90 m-Xylene & p-Xylene	106	7.284	7.278	0.006	98	29192	2.00	2.06	
91 o-Xylene	106	7.608	7.608	0.000	97	28101	2.00	2.03	
92 Styrene	104	7.632	7.626	0.006	95	46903	2.00	2.04	
95 Bromoform	173	7.821	7.821	0.000	94	13340	2.00	1.85	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	67383	2.00	1.94	
101 Bromobenzene	156	8.181	8.181	0.000	90	22860	2.00	1.95	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	26137	2.00	1.94	
99 N-Propylbenzene	91	8.235	8.235	0.000	100	90627	2.00	1.99	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	87	6763	2.00	1.98	
98 trans-1,4-Dichloro-2-butene	53	8.248	8.242	0.006	81	5144	2.00	1.91	
103 2-Chlorotoluene	126	8.327	8.327	0.000	97	19333	2.00	1.92	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	64382	2.00	1.98	
105 4-Chlorotoluene	126	8.418	8.412	0.006	96	21273	2.00	2.04	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	12097	2.00	1.94	
107 1,2,4-Trimethylbenzene	105	8.693	8.687	0.006	97	66111	2.00	1.96	

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	8.827	8.821	0.006	95	84944	2.00	2.01	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	98	71746	2.00	1.97	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	99	45476	2.00	2.05	
113 1,4-Dichlorobenzene	146	9.028	9.028	0.000	97	47822	2.00	2.06	
115 n-Butylbenzene	91	9.290	9.290	0.000	98	66641	2.00	2.01	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	98	44377	2.00	2.01	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	83	4162	2.00	1.74	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	94	29826	2.00	1.90	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	16535	2.00	2.04	
121 Naphthalene	128	10.900	10.900	0.000	97	67649	2.00	1.81	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	29653	2.00	1.91	
S 125 1,2-Dichloroethene, Total	1				0			4.16	
S 126 1,3-Dichloropropene, Total	1				0			3.75	
S 124 Xylenes, Total	1				0			4.09	
S 123 Total BTEX	1				0			10.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00259	Amount Added:	2.00	Units: uL	
GAS CORP mix_00641	Amount Added:	2.00	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

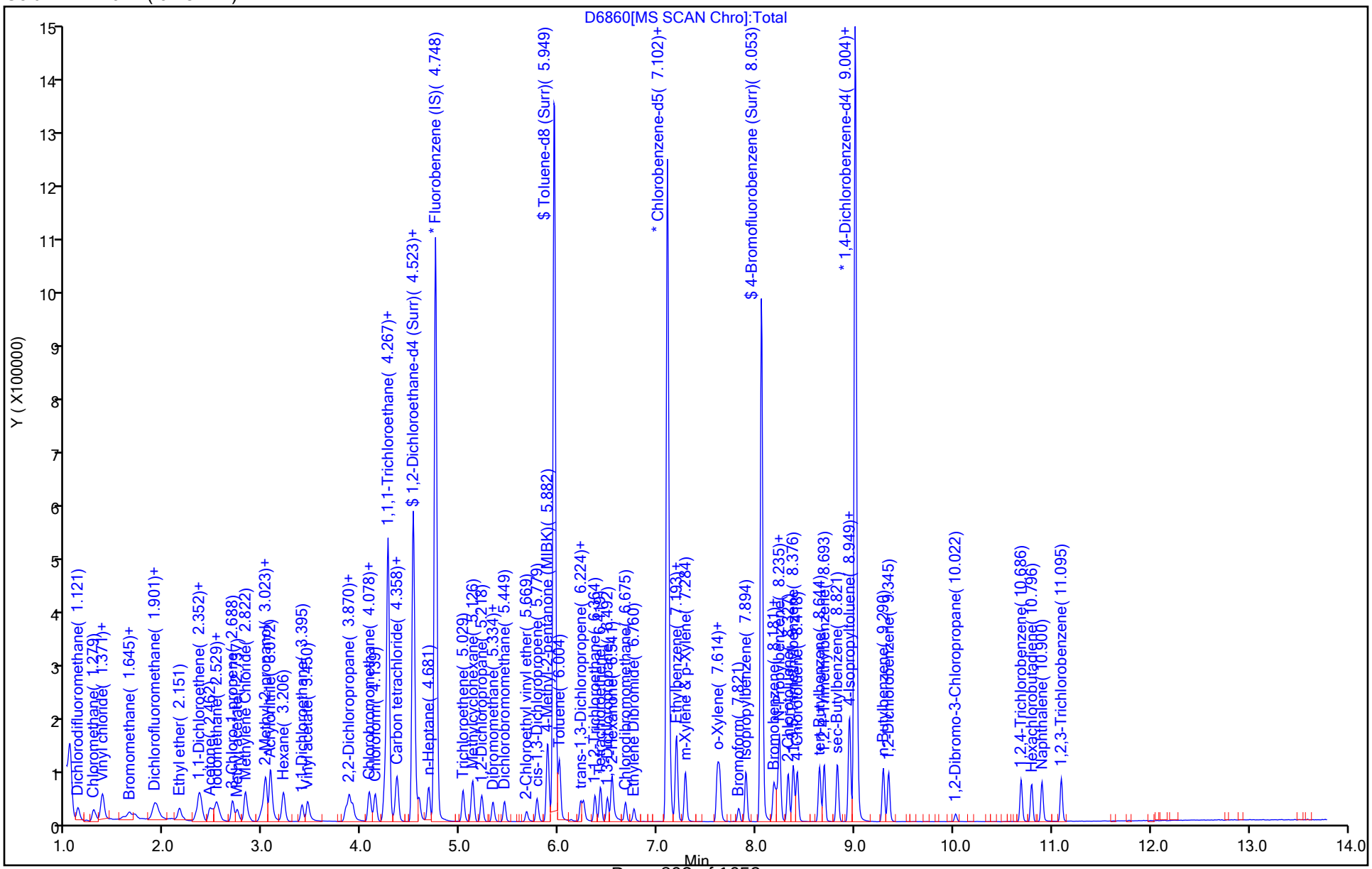
Report Date: 20-Sep-2024 11:51:16 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Injection Date:	20-Sep-2024 01:02:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	49
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	48
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

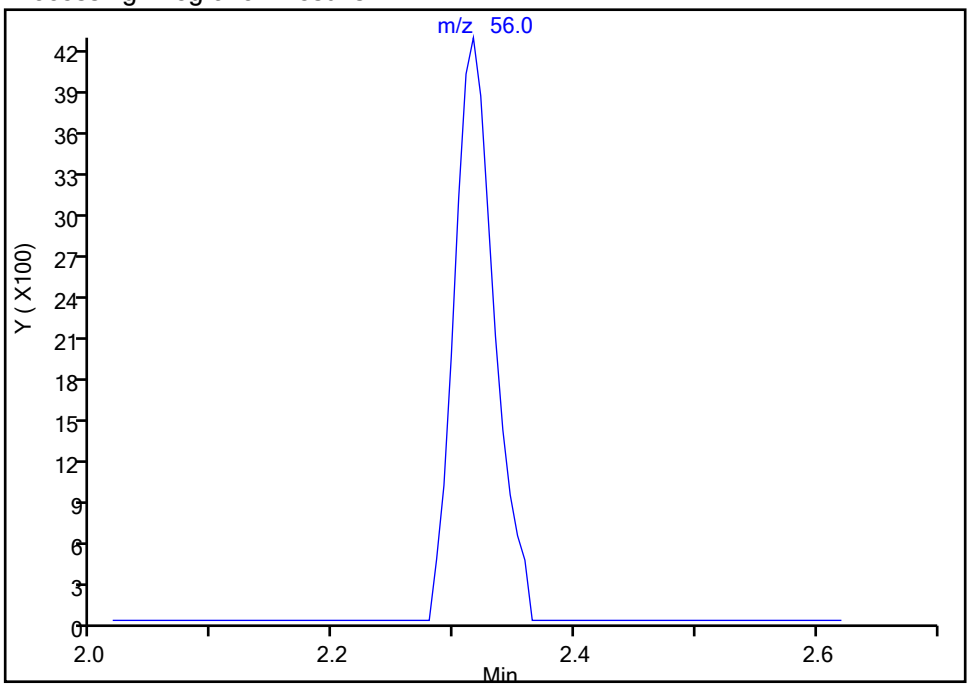
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Injection Date: 20-Sep-2024 01:02:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 48 Worklist Smp#: 49
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

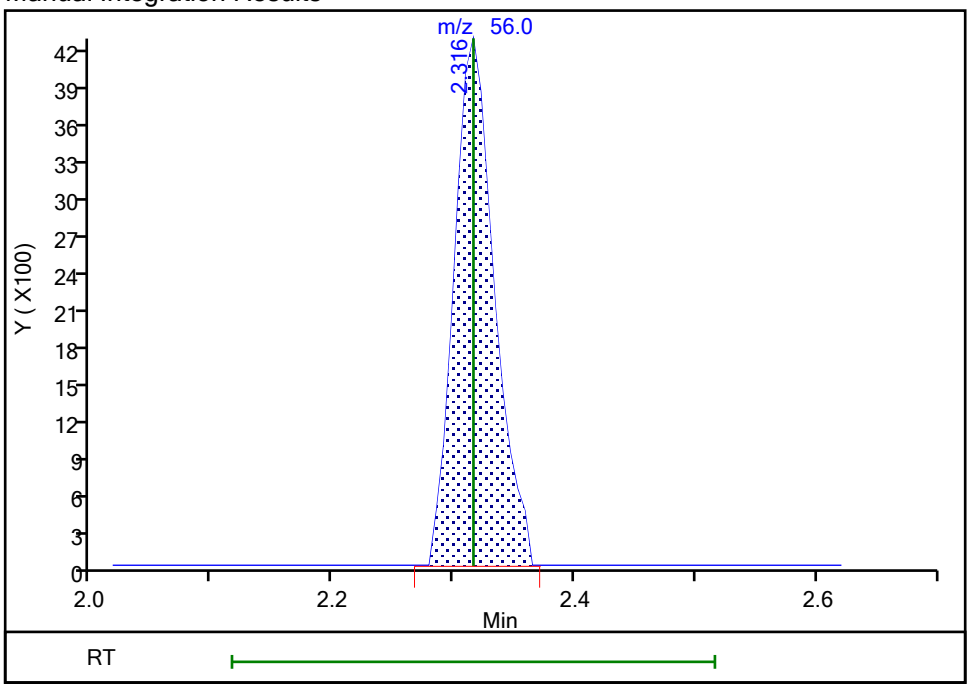
Not Detected
Expected RT: 2.32

Processing Integration Results



Manual Integration Results

RT: 2.32
Area: 9942
Amount: 9.253906
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 10:50:22 -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

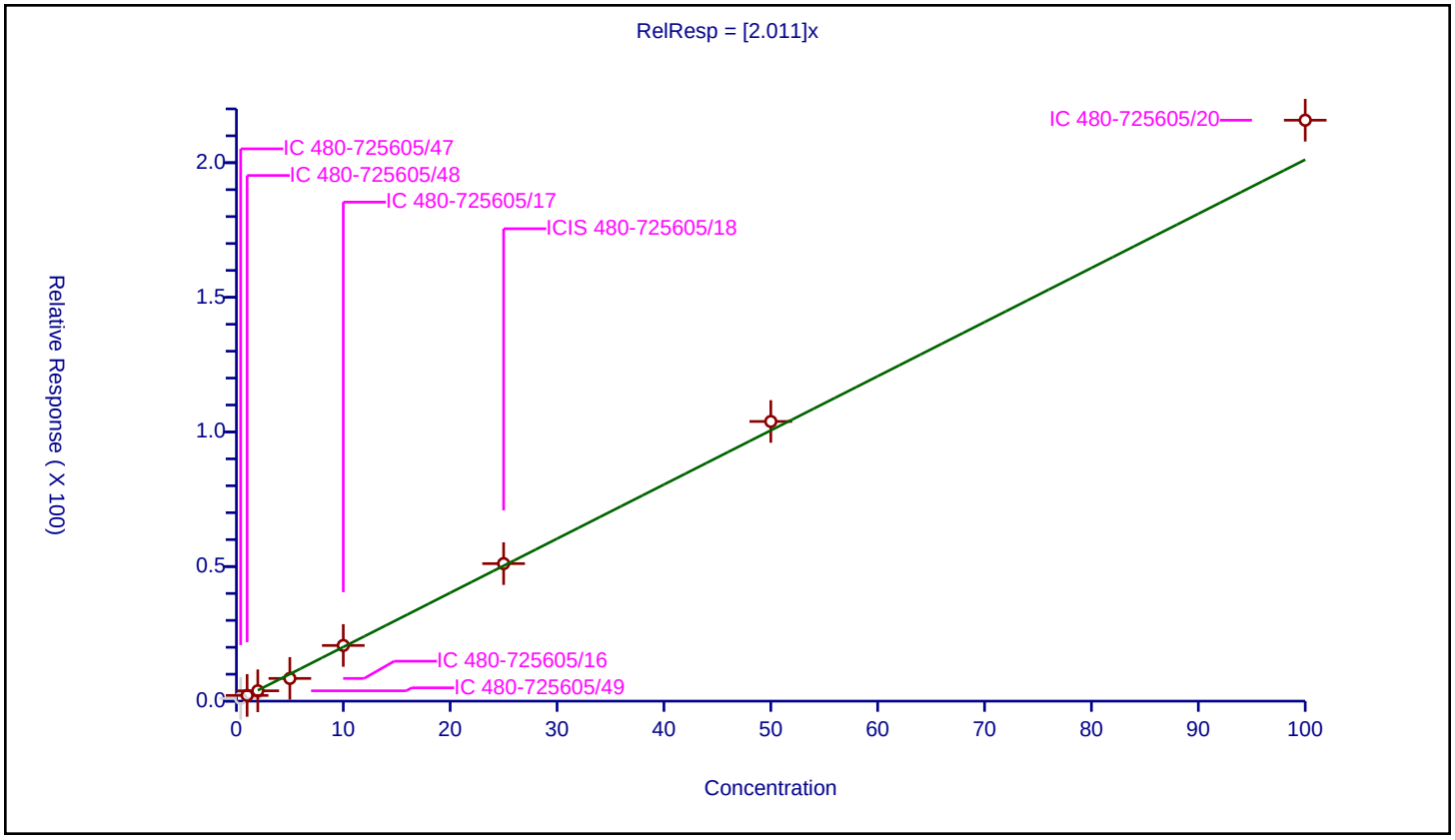
Curve Coefficients

Intercept:	0
Slope:	2.011

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.026945	25.0	190760.0	2.567362	N
2	IC 480-725605/48	1.0	2.122792	25.0	189279.0	2.122792	Y
3	IC 480-725605/49	2.0	3.844858	25.0	188401.0	1.922429	Y
4	IC 480-725605/16	5.0	8.439255	25.0	179536.0	1.687851	Y
5	IC 480-725605/17	10.0	20.677923	25.0	175020.0	2.067792	Y
6	ICIS 480-725605/18	25.0	51.08533	25.0	171768.0	2.043413	Y
7	IC 480-725605/19	50.0	103.886558	25.0	171630.0	2.077731	Y
8	IC 480-725605/20	100.0	215.795753	25.0	168463.0	2.157958	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

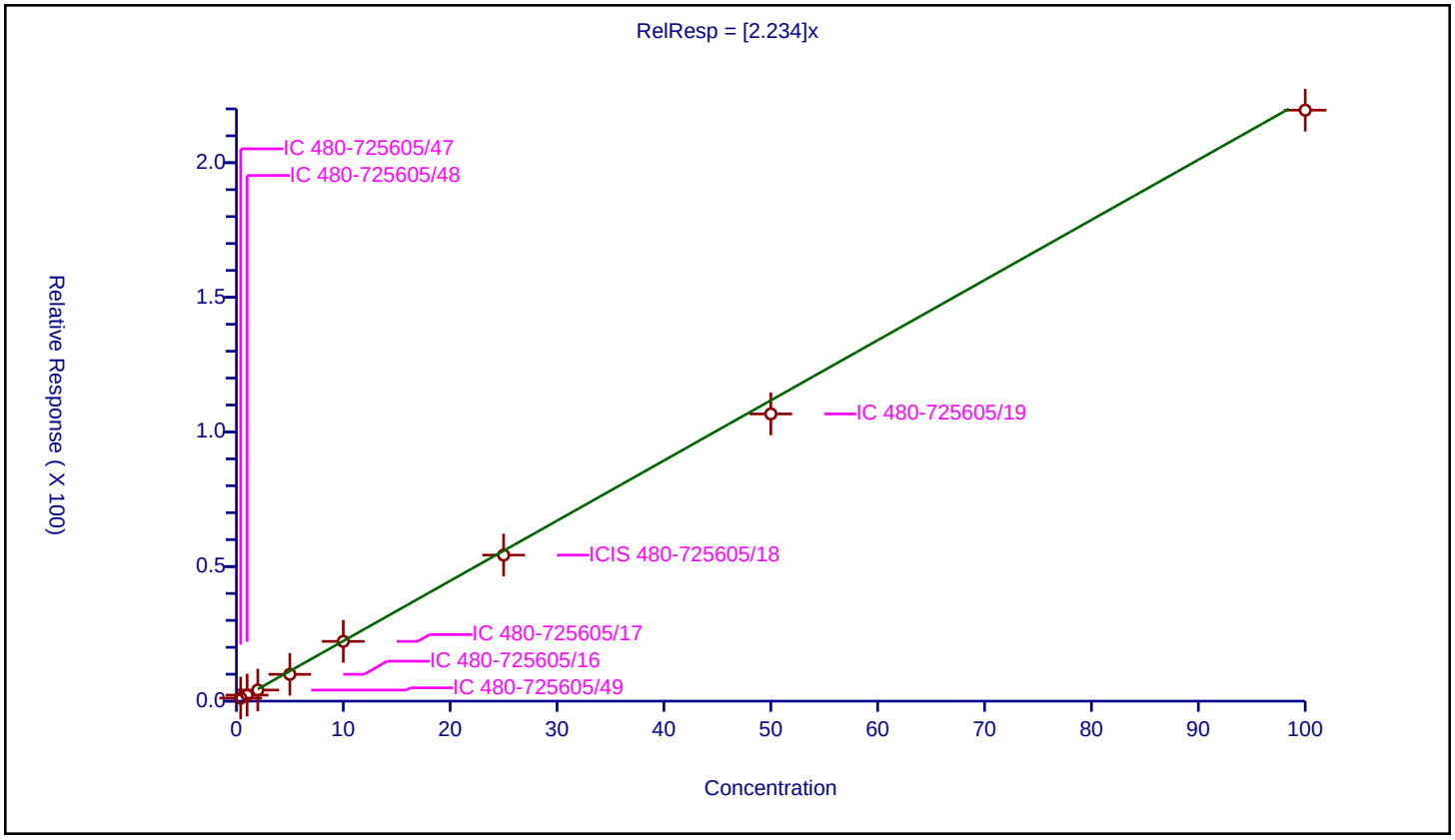
Curve Coefficients

Intercept:	0
Slope:	2.234

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.141618	25.0	190760.0	2.854044	Y
2	IC 480-725605/48	1.0	2.251438	25.0	189279.0	2.251438	Y
3	IC 480-725605/49	2.0	4.11967	25.0	188401.0	2.059835	Y
4	IC 480-725605/16	5.0	9.957613	25.0	179536.0	1.991523	Y
5	IC 480-725605/17	10.0	22.191464	25.0	175020.0	2.219146	Y
6	ICIS 480-725605/18	25.0	54.255304	25.0	171768.0	2.170212	Y
7	IC 480-725605/19	50.0	106.684583	25.0	171630.0	2.133692	Y
8	IC 480-725605/20	100.0	219.526246	25.0	168463.0	2.195262	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

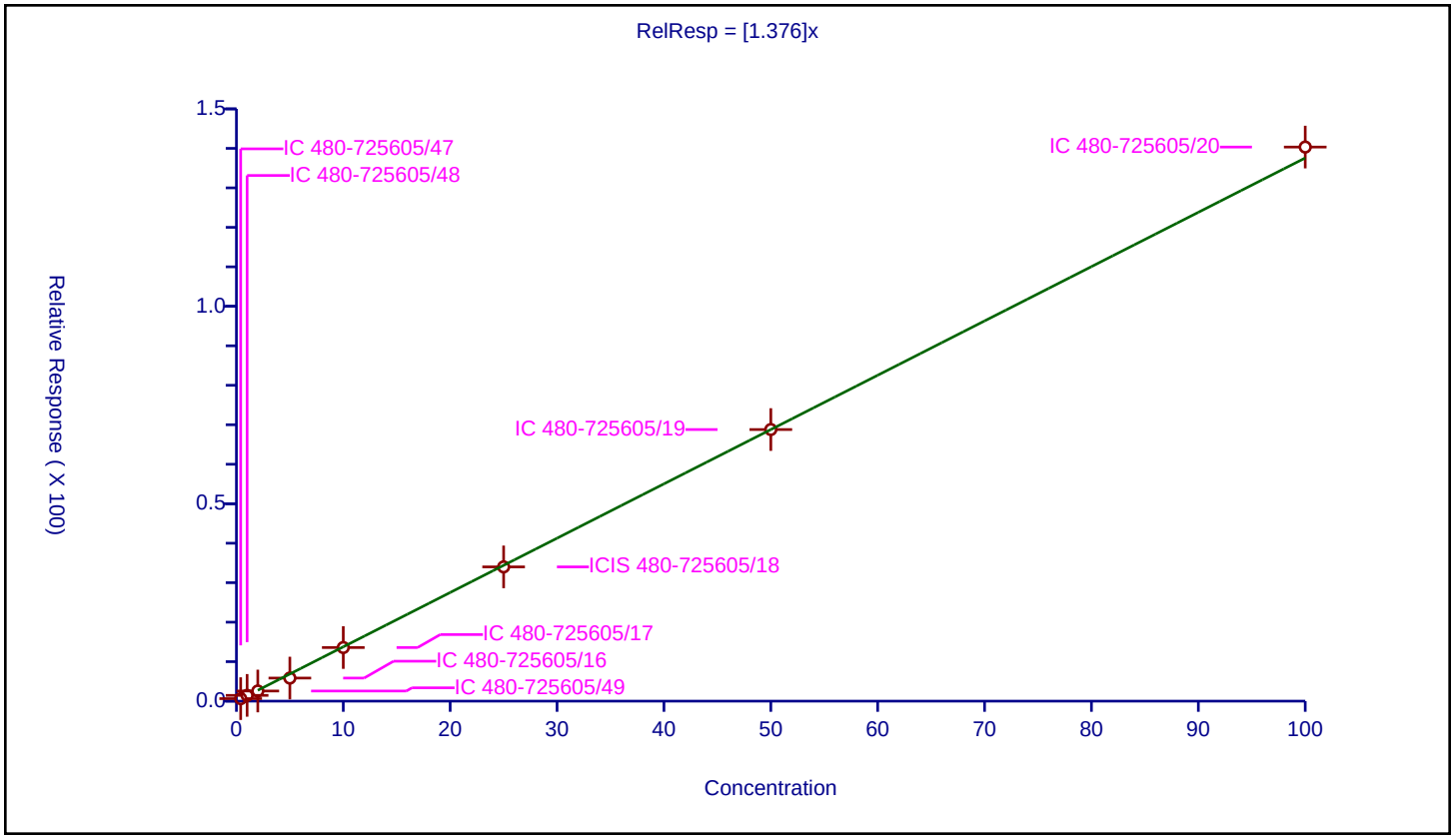
Curve Coefficients

Intercept:	0
Slope:	1.376

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.638237	25.0	190760.0	1.595591	Y
2	IC 480-725605/48	1.0	1.45975	25.0	189279.0	1.45975	Y
3	IC 480-725605/49	2.0	2.568192	25.0	188401.0	1.284096	Y
4	IC 480-725605/16	5.0	5.846042	25.0	179536.0	1.169208	Y
5	IC 480-725605/17	10.0	13.573306	25.0	175020.0	1.357331	Y
6	ICIS 480-725605/18	25.0	34.000658	25.0	171768.0	1.360026	Y
7	IC 480-725605/19	50.0	68.79013	25.0	171630.0	1.375803	Y
8	IC 480-725605/20	100.0	140.331853	25.0	168463.0	1.403319	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

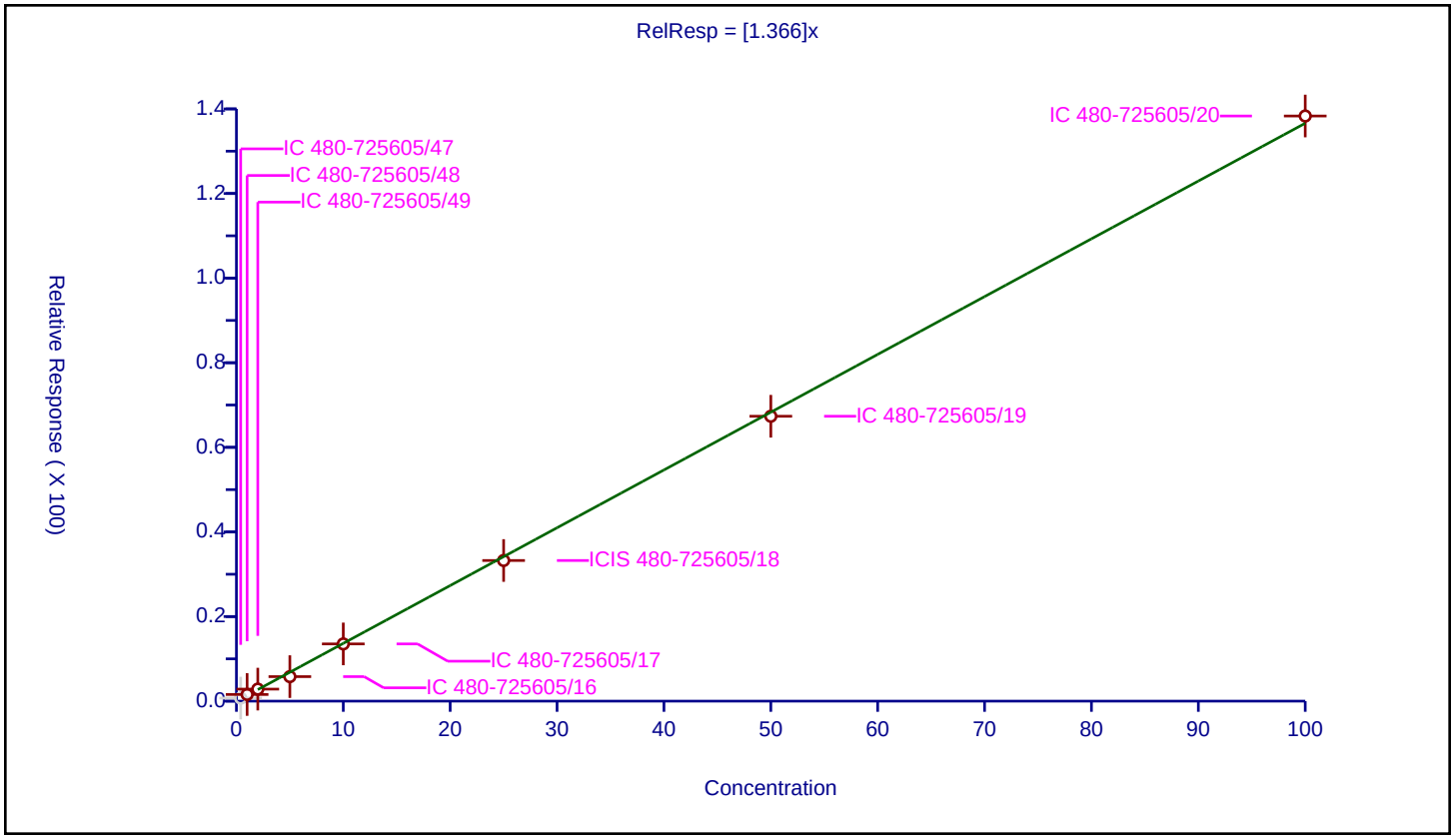
Curve Coefficients

Intercept:	0
Slope:	1.366

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.718049	25.0	190760.0	1.795122	N
2	IC 480-725605/48	1.0	1.568716	25.0	189279.0	1.568716	Y
3	IC 480-725605/49	2.0	2.845394	25.0	188401.0	1.422697	Y
4	IC 480-725605/16	5.0	5.792292	25.0	179536.0	1.158458	Y
5	IC 480-725605/17	10.0	13.526883	25.0	175020.0	1.352688	Y
6	ICIS 480-725605/18	25.0	33.246443	25.0	171768.0	1.329858	Y
7	IC 480-725605/19	50.0	67.344141	25.0	171630.0	1.346883	Y
8	IC 480-725605/20	100.0	138.316574	25.0	168463.0	1.383166	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

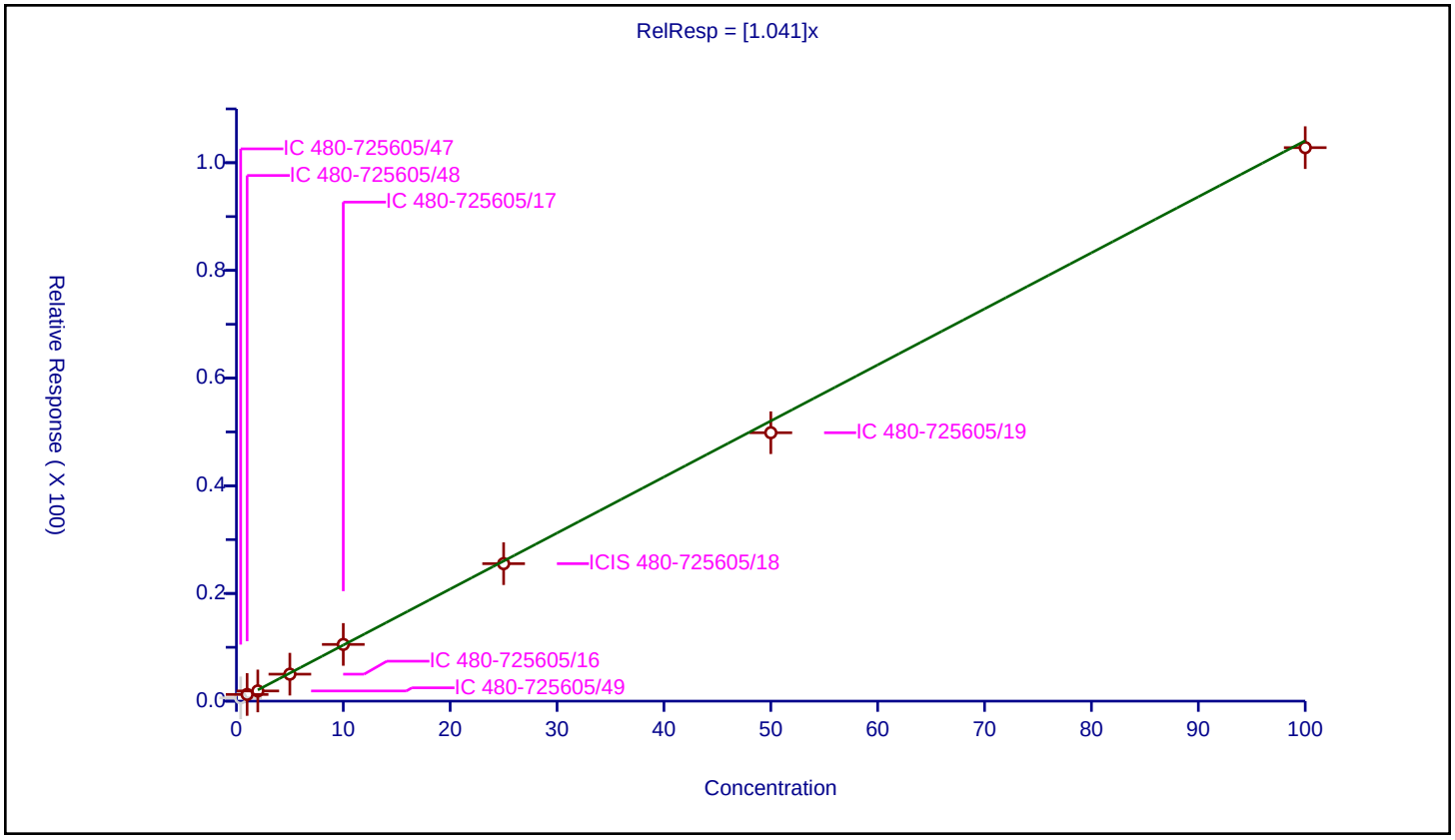
Curve Coefficients

Intercept:	0
Slope:	1.041

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.60888	25.0	190760.0	1.522201	N
2	IC 480-725605/48	1.0	1.237855	25.0	189279.0	1.237855	Y
3	IC 480-725605/49	2.0	1.892904	25.0	188401.0	0.946452	Y
4	IC 480-725605/16	5.0	5.010276	25.0	179536.0	1.002055	Y
5	IC 480-725605/17	10.0	10.532939	25.0	175020.0	1.053294	Y
6	ICIS 480-725605/18	25.0	25.530949	25.0	171768.0	1.021238	Y
7	IC 480-725605/19	50.0	49.855649	25.0	171630.0	0.997113	Y
8	IC 480-725605/20	100.0	102.803138	25.0	168463.0	1.028031	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

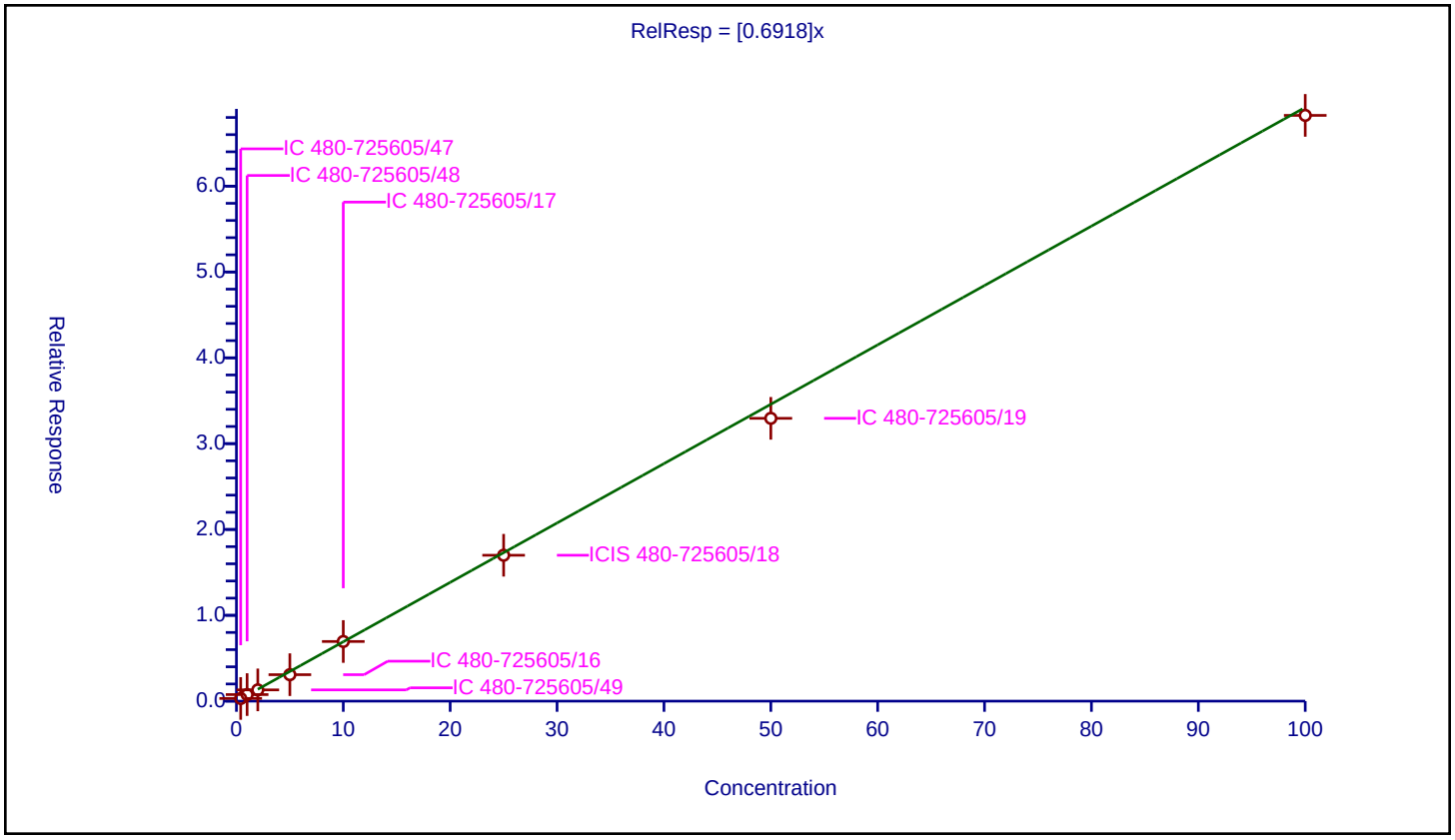
Curve Coefficients

Intercept:	0
Slope:	0.6918

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.312959	25.0	190760.0	0.782397	Y
2	IC 480-725605/48	1.0	0.76382	25.0	189279.0	0.76382	Y
3	IC 480-725605/49	2.0	1.310635	25.0	188401.0	0.655318	Y
4	IC 480-725605/16	5.0	3.081415	25.0	179536.0	0.616283	Y
5	IC 480-725605/17	10.0	6.950206	25.0	175020.0	0.695021	Y
6	ICIS 480-725605/18	25.0	16.997782	25.0	171768.0	0.679911	Y
7	IC 480-725605/19	50.0	32.950387	25.0	171630.0	0.659008	Y
8	IC 480-725605/20	100.0	68.242878	25.0	168463.0	0.682429	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

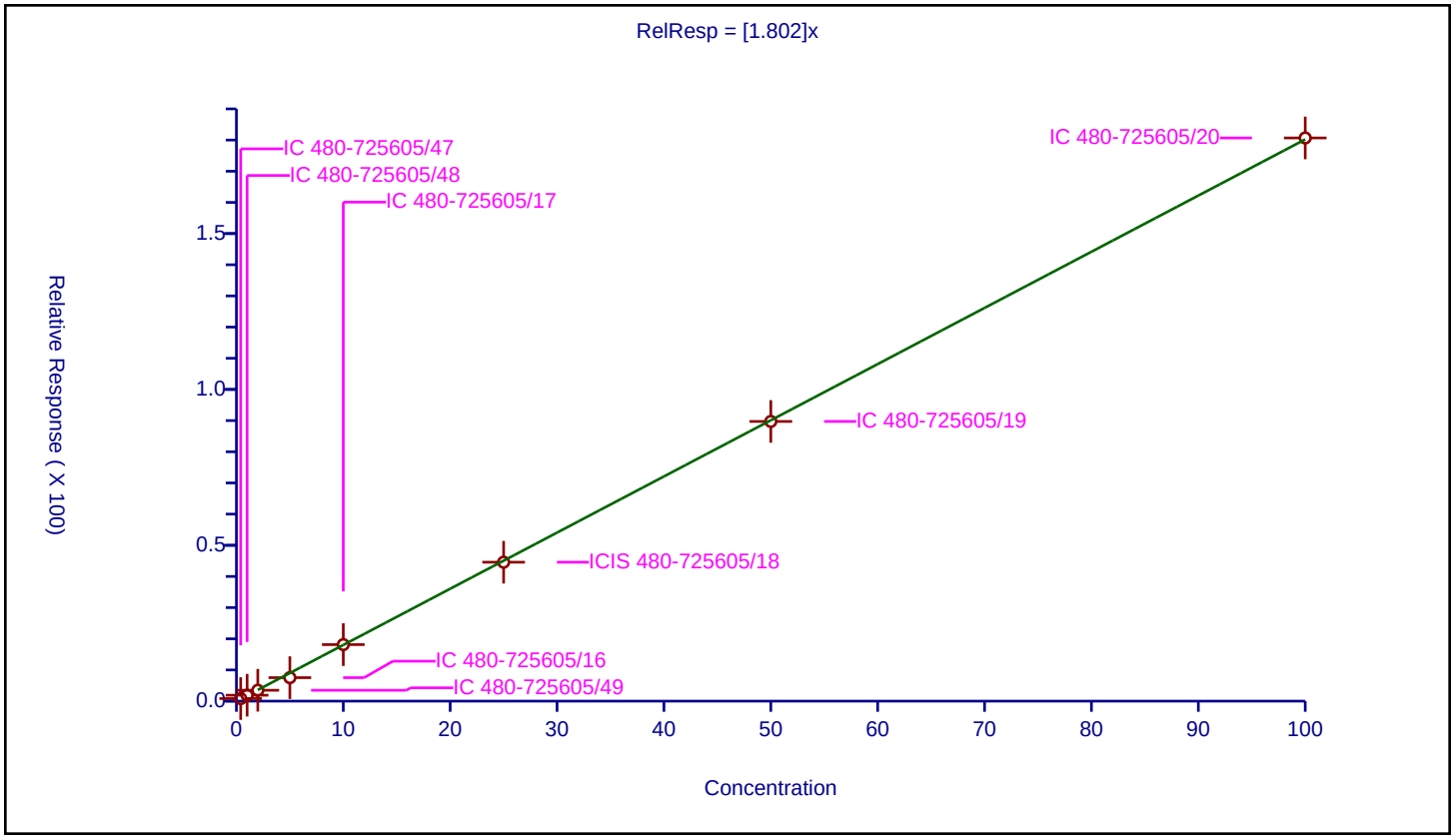
Curve Coefficients

Intercept:	0
Slope:	1.802

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.828135	25.0	190760.0	2.070337	Y
2	IC 480-725605/48	1.0	1.897199	25.0	189279.0	1.897199	Y
3	IC 480-725605/49	2.0	3.490693	25.0	188401.0	1.745346	Y
4	IC 480-725605/16	5.0	7.531776	25.0	179536.0	1.506355	Y
5	IC 480-725605/17	10.0	18.136642	25.0	175020.0	1.813664	Y
6	ICIS 480-725605/18	25.0	44.571602	25.0	171768.0	1.782864	Y
7	IC 480-725605/19	50.0	89.728486	25.0	171630.0	1.79457	Y
8	IC 480-725605/20	100.0	180.67914	25.0	168463.0	1.806791	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

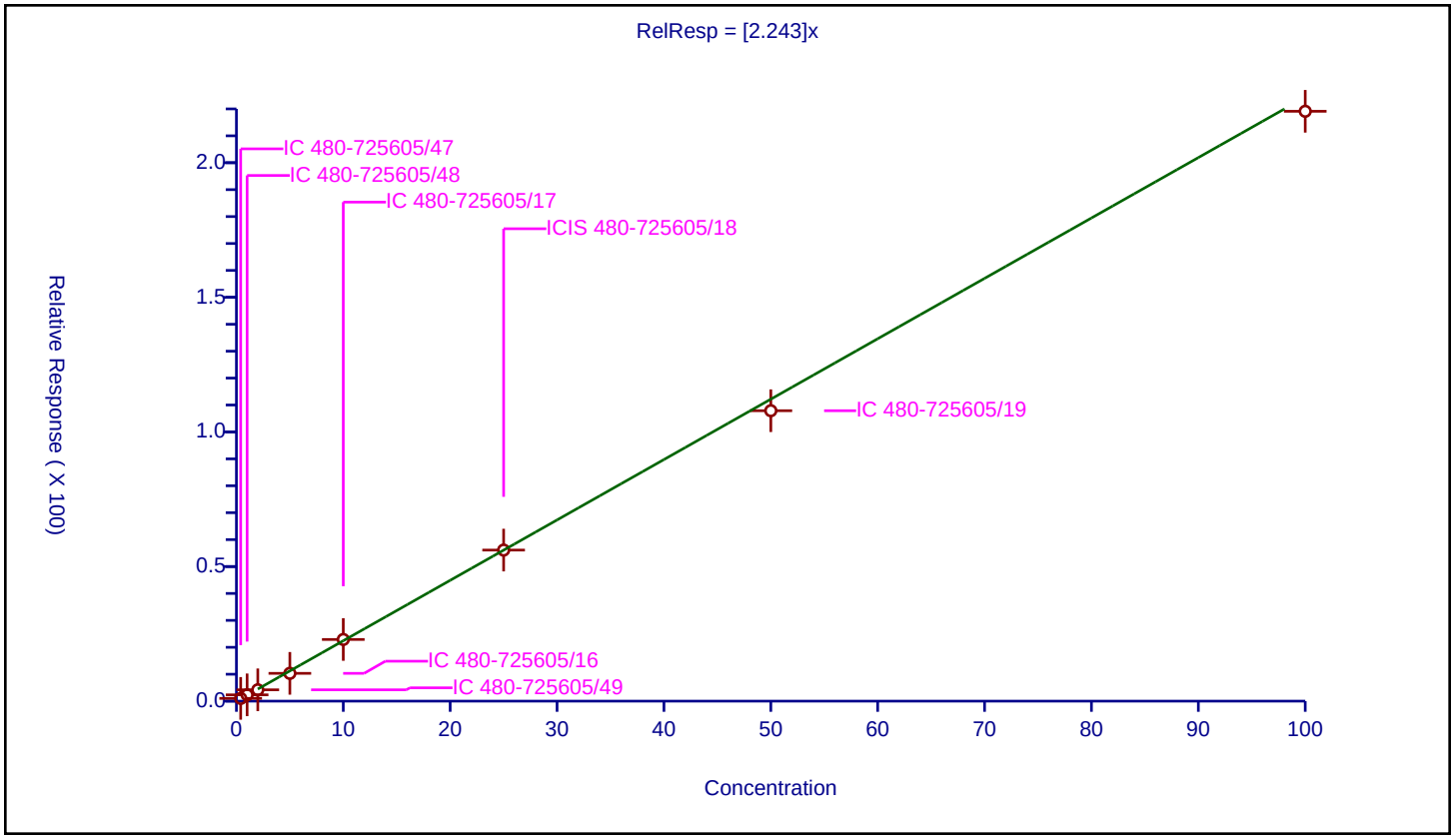
Curve Coefficients

Intercept:	0
Slope:	2.243

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.02013	25.0	190760.0	2.550325	Y
2	IC 480-725605/48	1.0	2.344291	25.0	189279.0	2.344291	Y
3	IC 480-725605/49	2.0	4.206453	25.0	188401.0	2.103227	Y
4	IC 480-725605/16	5.0	10.326341	25.0	179536.0	2.065268	Y
5	IC 480-725605/17	10.0	22.908382	25.0	175020.0	2.290838	Y
6	ICIS 480-725605/18	25.0	56.110859	25.0	171768.0	2.244434	Y
7	IC 480-725605/19	50.0	107.881781	25.0	171630.0	2.157636	Y
8	IC 480-725605/20	100.0	219.105234	25.0	168463.0	2.191052	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

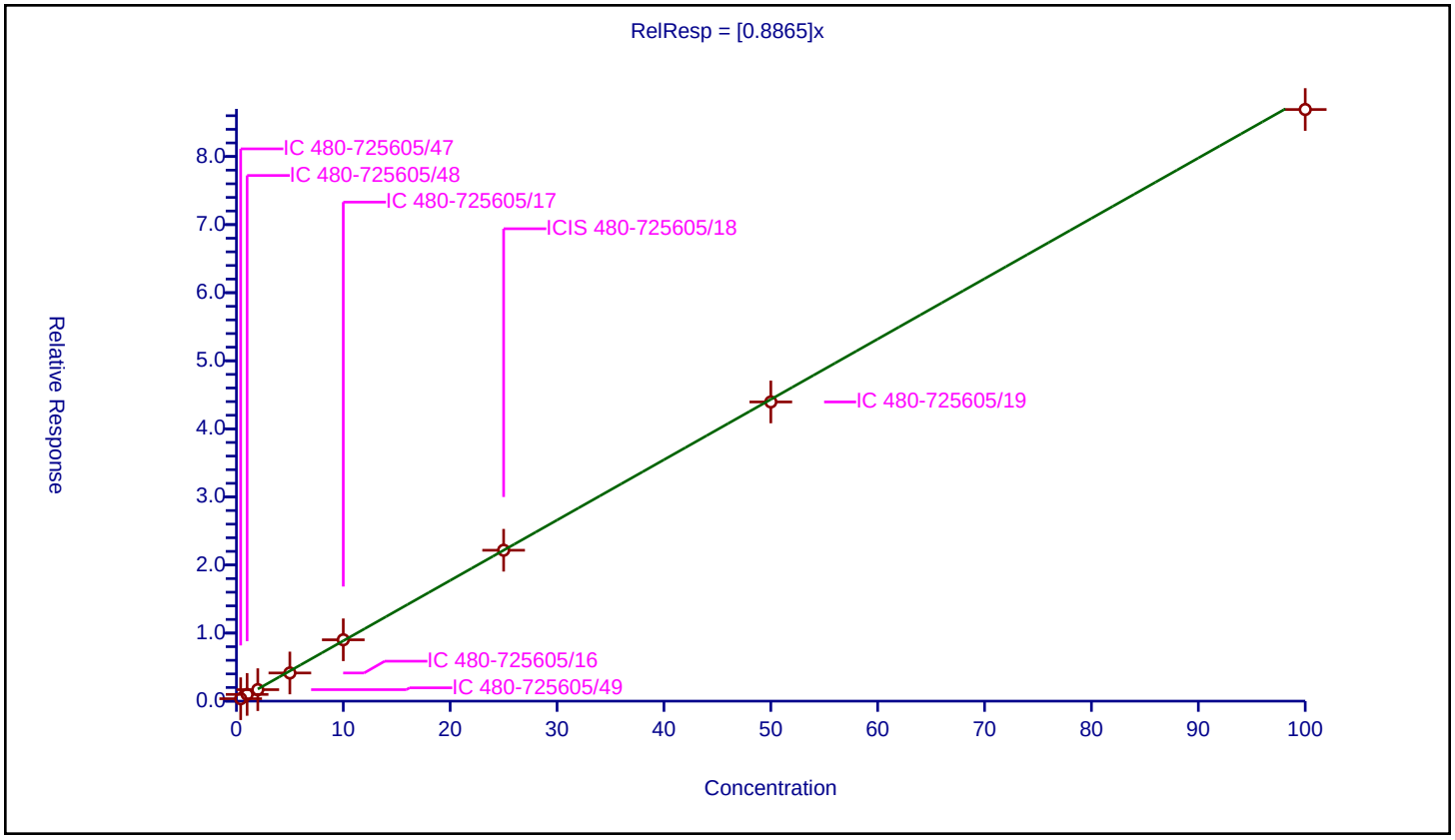
Curve Coefficients

Intercept:	0
Slope:	0.8865

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.358042	25.0	190760.0	0.895104	Y
2	IC 480-725605/48	1.0	0.988752	25.0	189279.0	0.988752	Y
3	IC 480-725605/49	2.0	1.688685	25.0	188401.0	0.844343	Y
4	IC 480-725605/16	5.0	4.13775	25.0	179536.0	0.82755	Y
5	IC 480-725605/17	10.0	9.012684	25.0	175020.0	0.901268	Y
6	ICIS 480-725605/18	25.0	22.167546	25.0	171768.0	0.886702	Y
7	IC 480-725605/19	50.0	43.952543	25.0	171630.0	0.879051	Y
8	IC 480-725605/20	100.0	86.91033	25.0	168463.0	0.869103	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

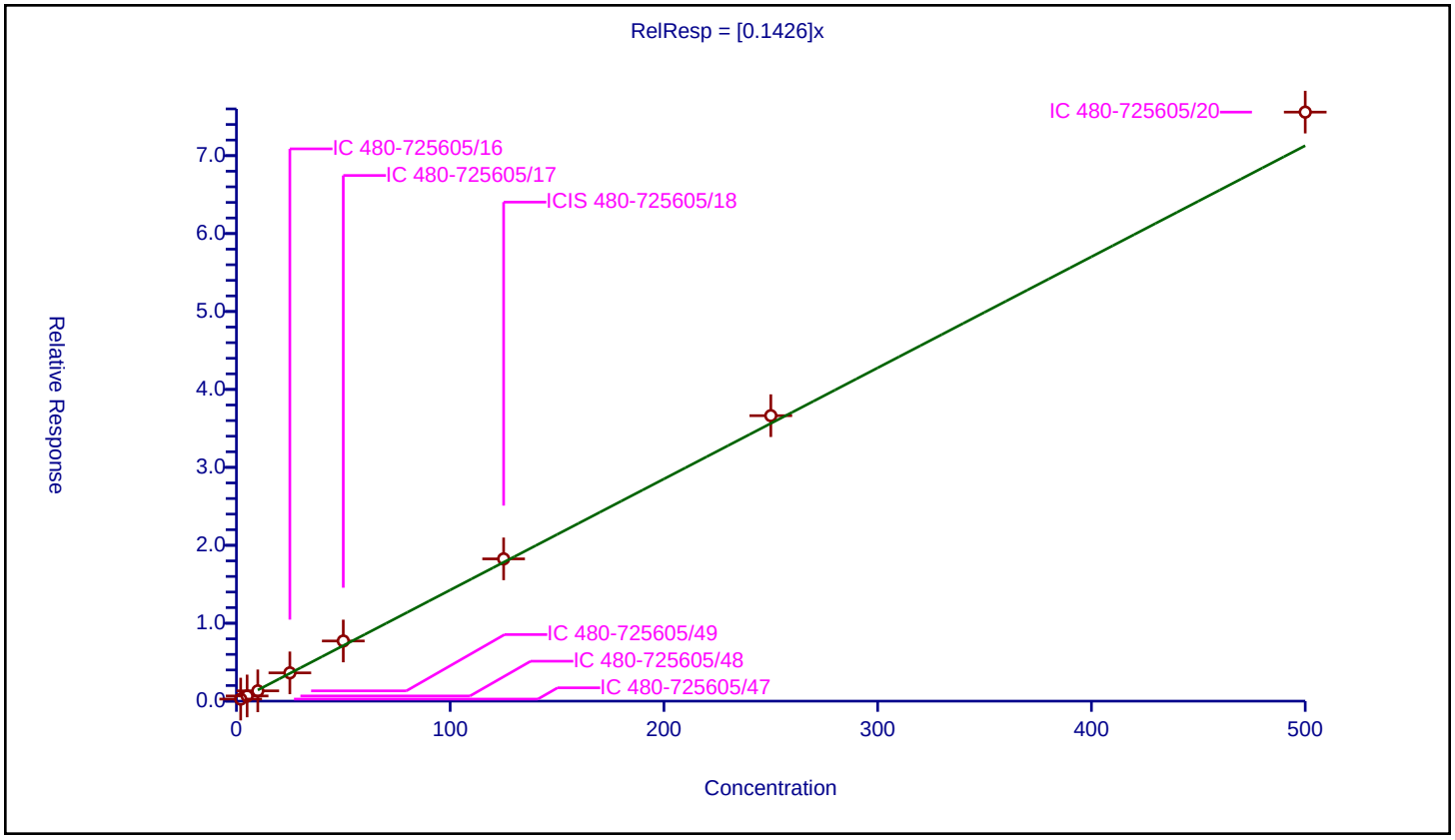
Curve Coefficients

Intercept:	0
Slope:	0.1426

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	2.0	0.264599	25.0	190760.0	0.1323	Y
2	IC 480-725605/48	5.0	0.665156	25.0	189279.0	0.133031	Y
3	IC 480-725605/49	10.0	1.319261	25.0	188401.0	0.131926	Y
4	IC 480-725605/16	25.0	3.62671	25.0	179536.0	0.145068	Y
5	IC 480-725605/17	50.0	7.720546	25.0	175020.0	0.154411	Y
6	ICIS 480-725605/18	125.0	18.257475	25.0	171768.0	0.14606	Y
7	IC 480-725605/19	250.0	36.633019	25.0	171630.0	0.146532	Y
8	IC 480-725605/20	500.0	75.586182	25.0	168463.0	0.151172	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

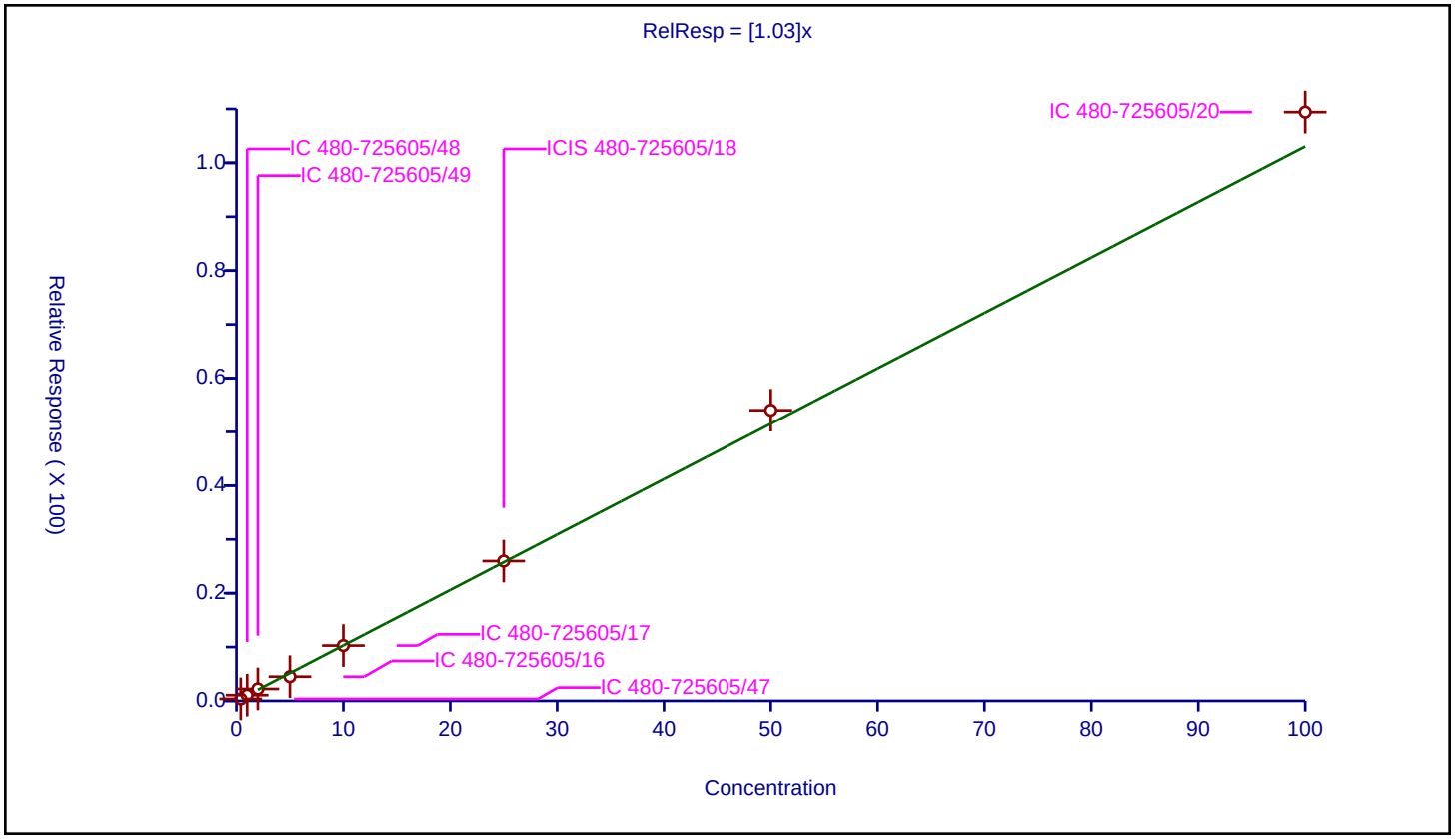
Curve Coefficients

Intercept:	0
Slope:	1.03

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.369181	25.0	190760.0	0.922953	Y
2	IC 480-725605/48	1.0	1.066283	25.0	189279.0	1.066283	Y
3	IC 480-725605/49	2.0	2.225174	25.0	188401.0	1.112587	Y
4	IC 480-725605/16	5.0	4.50049	25.0	179536.0	0.900098	Y
5	IC 480-725605/17	10.0	10.278111	25.0	175020.0	1.027811	Y
6	ICIS 480-725605/18	25.0	25.975007	25.0	171768.0	1.039	Y
7	IC 480-725605/19	50.0	54.034988	25.0	171630.0	1.0807	Y
8	IC 480-725605/20	100.0	109.413046	25.0	168463.0	1.09413	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

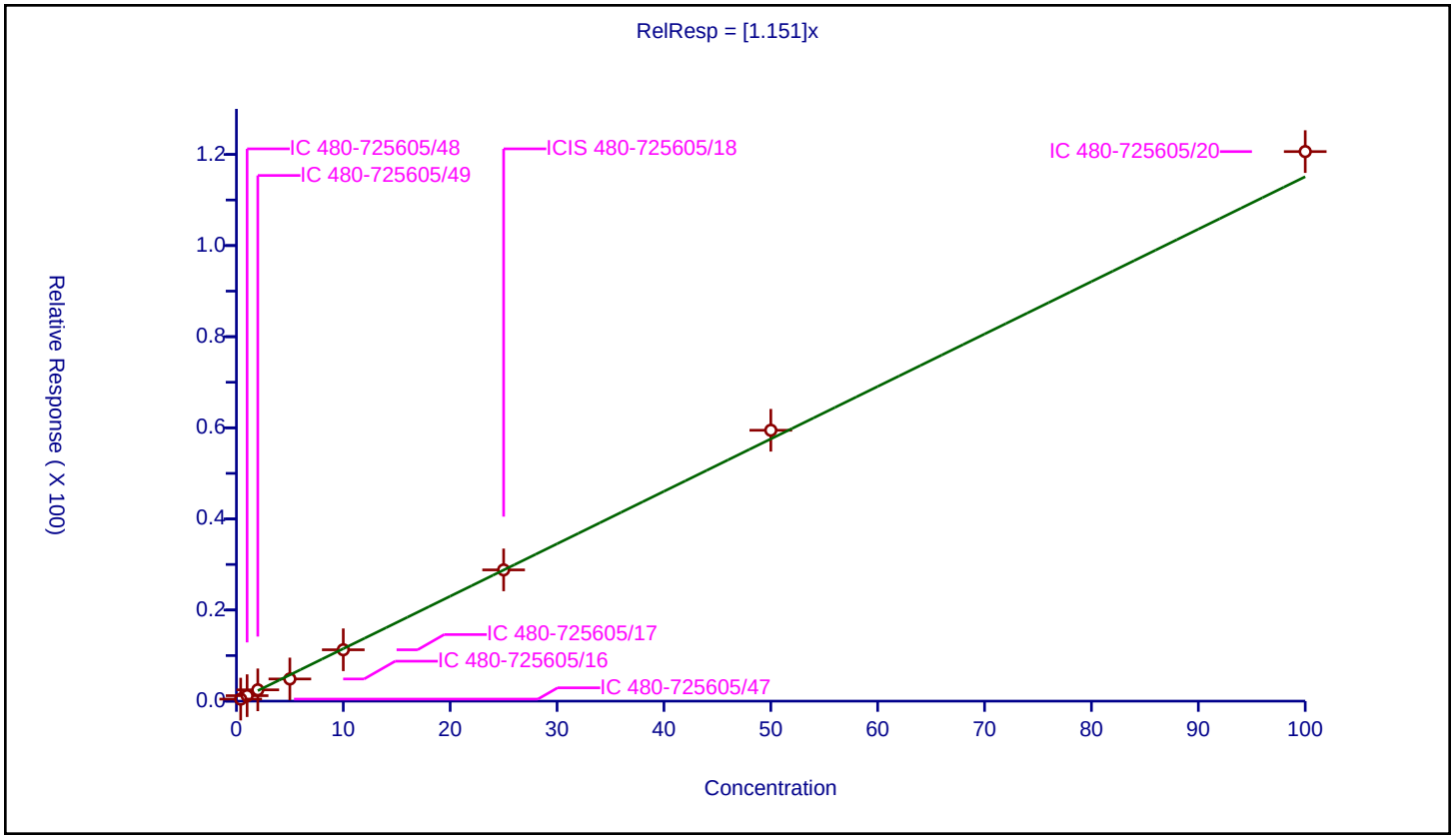
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.446897	25.0	190760.0	1.117242	Y
2	IC 480-725605/48	1.0	1.203646	25.0	189279.0	1.203646	Y
3	IC 480-725605/49	2.0	2.479154	25.0	188401.0	1.239577	Y
4	IC 480-725605/16	5.0	4.867965	25.0	179536.0	0.973593	Y
5	IC 480-725605/17	10.0	11.273283	25.0	175020.0	1.127328	Y
6	ICIS 480-725605/18	25.0	28.805278	25.0	171768.0	1.152211	Y
7	IC 480-725605/19	50.0	59.460467	25.0	171630.0	1.189209	Y
8	IC 480-725605/20	100.0	120.628565	25.0	168463.0	1.206286	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

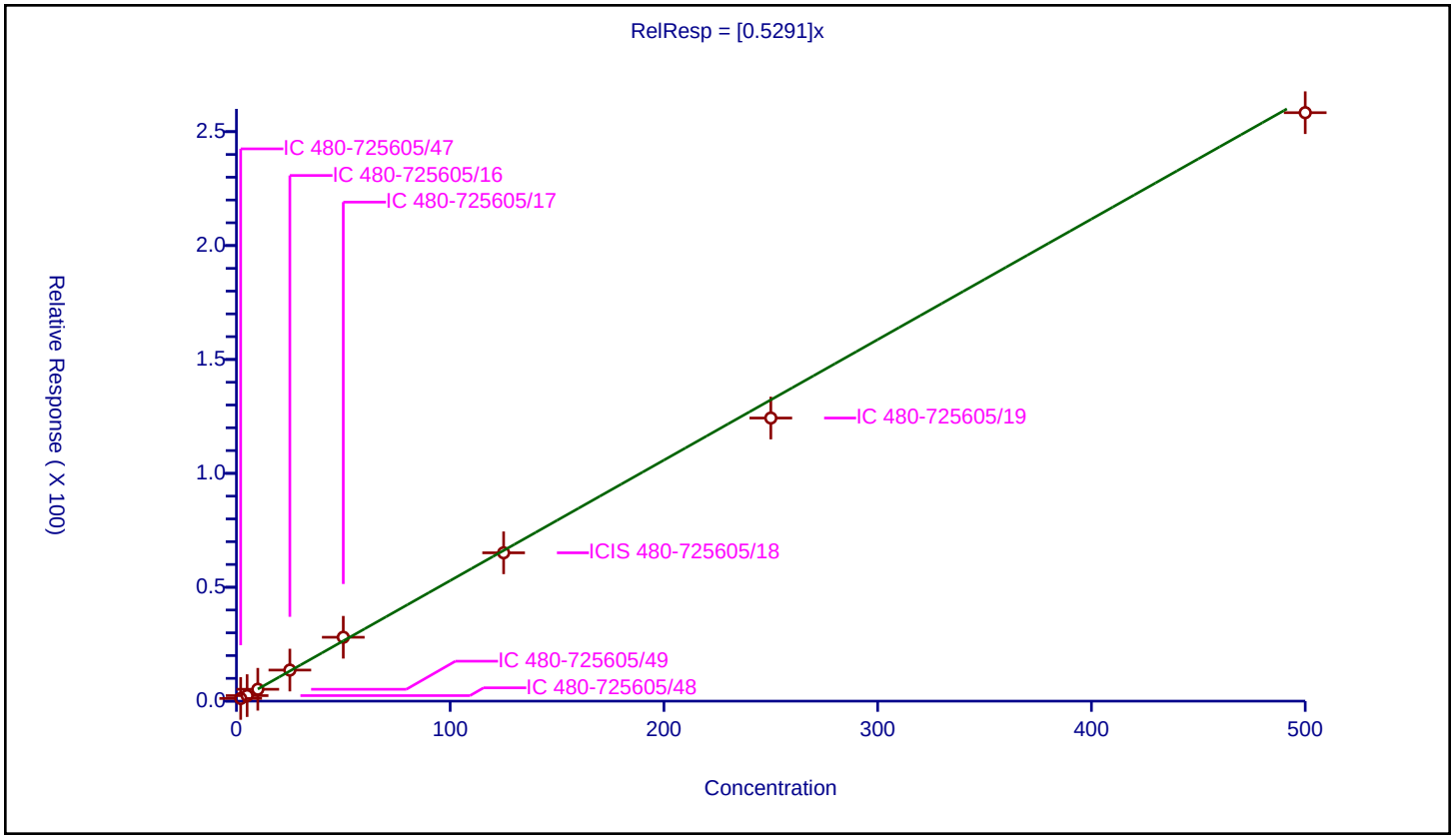
Curve Coefficients

Intercept:	0
Slope:	0.5291

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	2.0	1.172678	25.0	190760.0	0.586339	Y
2	IC 480-725605/48	5.0	2.421293	25.0	189279.0	0.484259	Y
3	IC 480-725605/49	10.0	5.209633	25.0	188401.0	0.520963	Y
4	IC 480-725605/16	25.0	13.633895	25.0	179536.0	0.545356	Y
5	IC 480-725605/17	50.0	28.040652	25.0	175020.0	0.560813	Y
6	ICIS 480-725605/18	125.0	65.118066	25.0	171768.0	0.520945	Y
7	IC 480-725605/19	250.0	124.289314	25.0	171630.0	0.497157	Y
8	IC 480-725605/20	500.0	258.336252	25.0	168463.0	0.516673	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

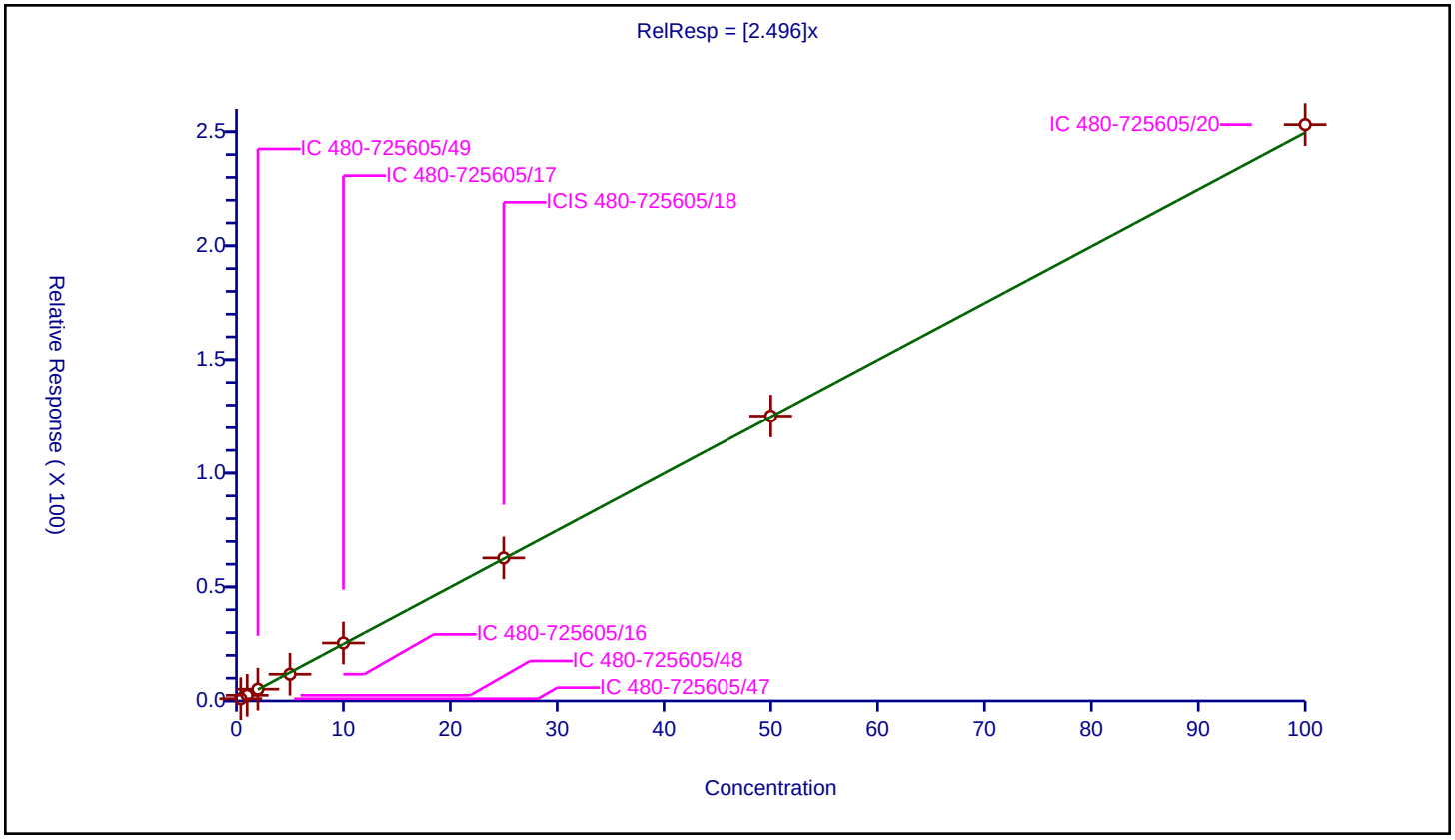
Curve Coefficients

Intercept:	0
Slope:	2.496

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.989987	25.0	190760.0	2.474969	Y
2	IC 480-725605/48	1.0	2.477295	25.0	189279.0	2.477295	Y
3	IC 480-725605/49	2.0	5.173672	25.0	188401.0	2.586836	Y
4	IC 480-725605/16	5.0	11.723833	25.0	179536.0	2.344767	Y
5	IC 480-725605/17	10.0	25.430379	25.0	175020.0	2.543038	Y
6	ICIS 480-725605/18	25.0	62.748737	25.0	171768.0	2.509949	Y
7	IC 480-725605/19	50.0	125.183389	25.0	171630.0	2.503668	Y
8	IC 480-725605/20	100.0	253.142827	25.0	168463.0	2.531428	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

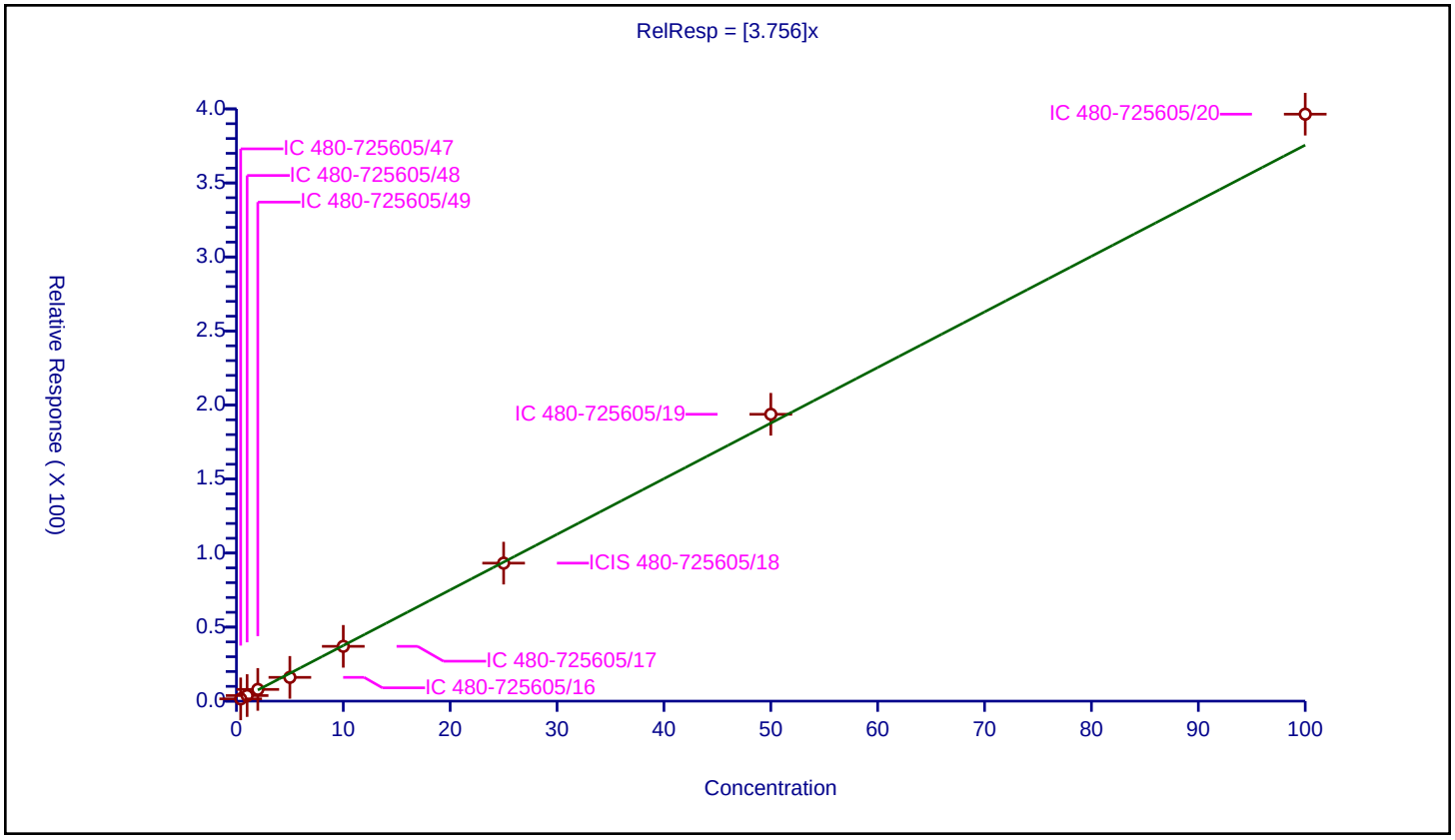
Curve Coefficients

Intercept:	0
Slope:	3.756

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.529933	25.0	190760.0	3.824832	Y
2	IC 480-725605/48	1.0	3.774587	25.0	189279.0	3.774587	Y
3	IC 480-725605/49	2.0	7.928833	25.0	188401.0	3.964416	Y
4	IC 480-725605/16	5.0	16.062517	25.0	179536.0	3.212503	Y
5	IC 480-725605/17	10.0	37.012199	25.0	175020.0	3.70122	Y
6	ICIS 480-725605/18	25.0	93.20275	25.0	171768.0	3.72811	Y
7	IC 480-725605/19	50.0	193.737983	25.0	171630.0	3.87476	Y
8	IC 480-725605/20	100.0	396.431561	25.0	168463.0	3.964316	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

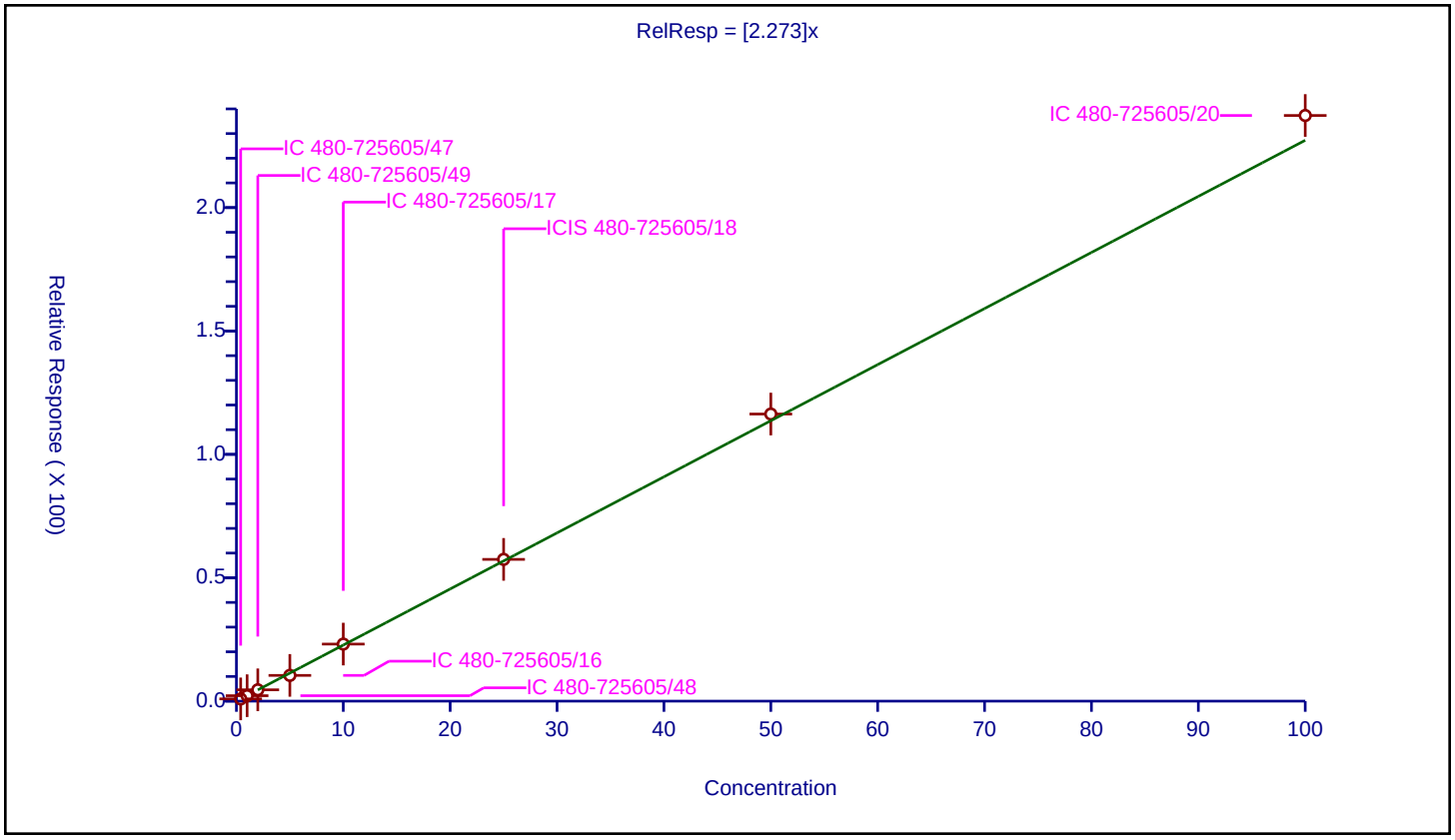
Curve Coefficients

Intercept:	0
Slope:	2.273

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.91083	25.0	190760.0	2.277076	Y
2	IC 480-725605/48	1.0	2.211814	25.0	189279.0	2.211814	Y
3	IC 480-725605/49	2.0	4.591802	25.0	188401.0	2.295901	Y
4	IC 480-725605/16	5.0	10.434398	25.0	179536.0	2.08688	Y
5	IC 480-725605/17	10.0	23.121643	25.0	175020.0	2.312164	Y
6	ICIS 480-725605/18	25.0	57.441287	25.0	171768.0	2.297651	Y
7	IC 480-725605/19	50.0	116.344753	25.0	171630.0	2.326895	Y
8	IC 480-725605/20	100.0	237.318432	25.0	168463.0	2.373184	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

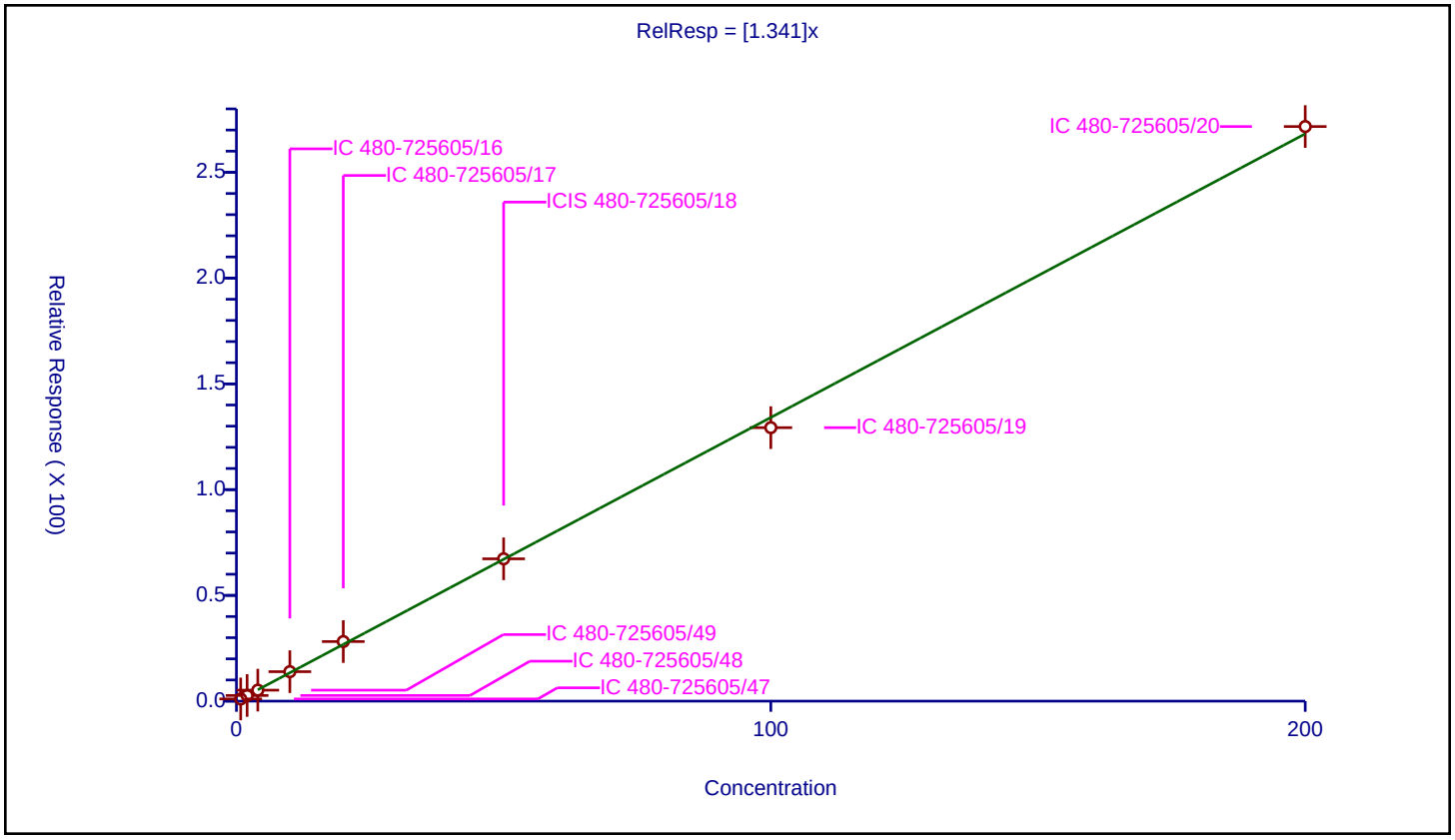
Curve Coefficients

Intercept:	0
Slope:	1.341

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.8	1.035594	25.0	190760.0	1.294493	Y
2	IC 480-725605/48	2.0	2.674227	25.0	189279.0	1.337113	Y
3	IC 480-725605/49	4.0	5.193576	25.0	188401.0	1.298394	Y
4	IC 480-725605/16	10.0	13.928961	25.0	179536.0	1.392896	Y
5	IC 480-725605/17	20.0	28.174066	25.0	175020.0	1.408703	Y
6	ICIS 480-725605/18	50.0	67.28698	25.0	171768.0	1.34574	Y
7	IC 480-725605/19	100.0	129.303006	25.0	171630.0	1.29303	Y
8	IC 480-725605/20	200.0	271.651342	25.0	168463.0	1.358257	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

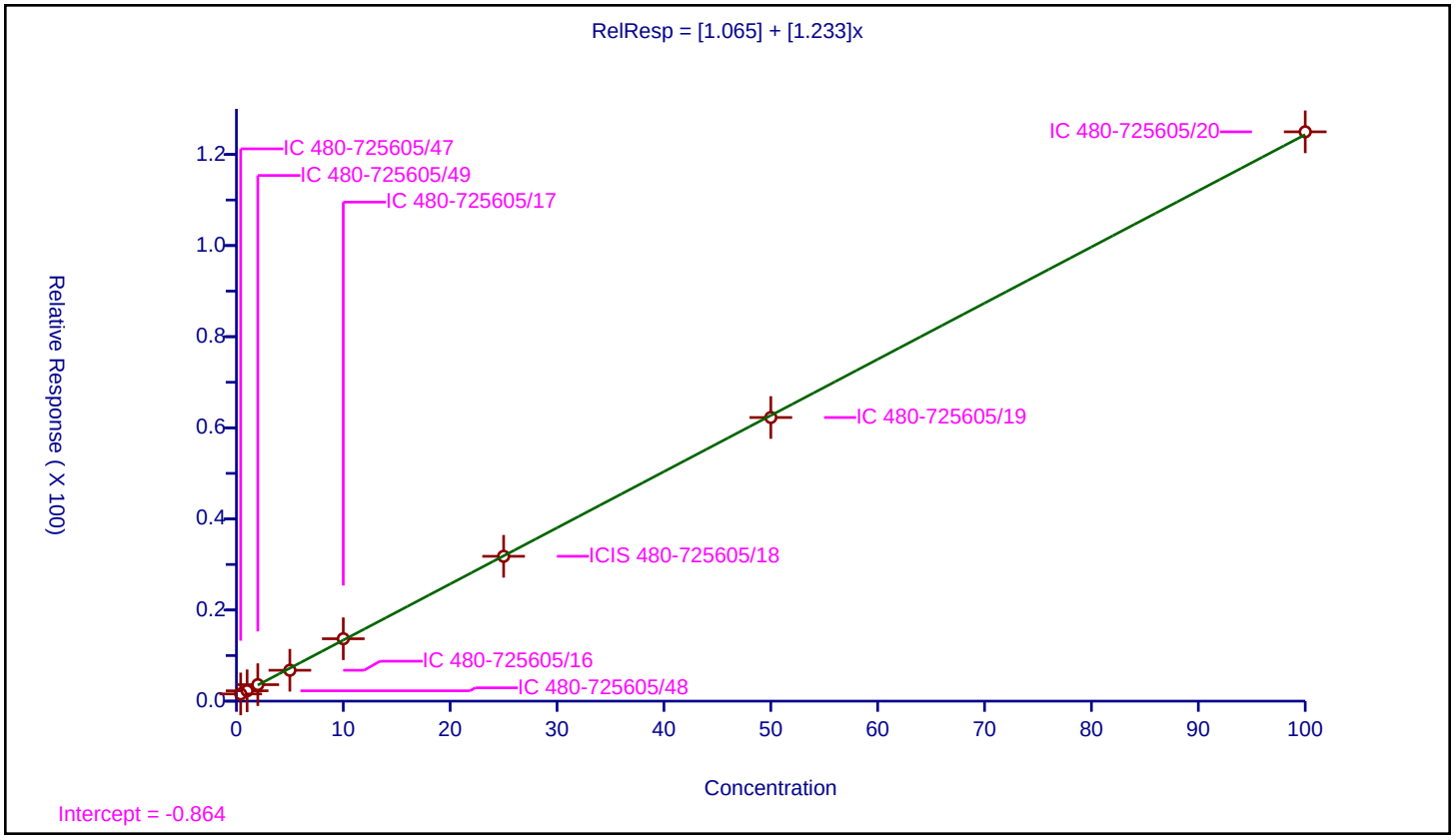
Curve Coefficients

Intercept:	1.065
Slope:	1.233

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.578685	25.0	190760.0	3.946713	Y
2	IC 480-725605/48	1.0	2.272043	25.0	189279.0	2.272043	Y
3	IC 480-725605/49	2.0	3.616488	25.0	188401.0	1.808244	Y
4	IC 480-725605/16	5.0	6.776496	25.0	179536.0	1.355299	Y
5	IC 480-725605/17	10.0	13.693578	25.0	175020.0	1.369358	Y
6	ICIS 480-725605/18	25.0	31.793029	25.0	171768.0	1.271721	Y
7	IC 480-725605/19	50.0	62.261842	25.0	171630.0	1.245237	Y
8	IC 480-725605/20	100.0	124.963939	25.0	168463.0	1.249639	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

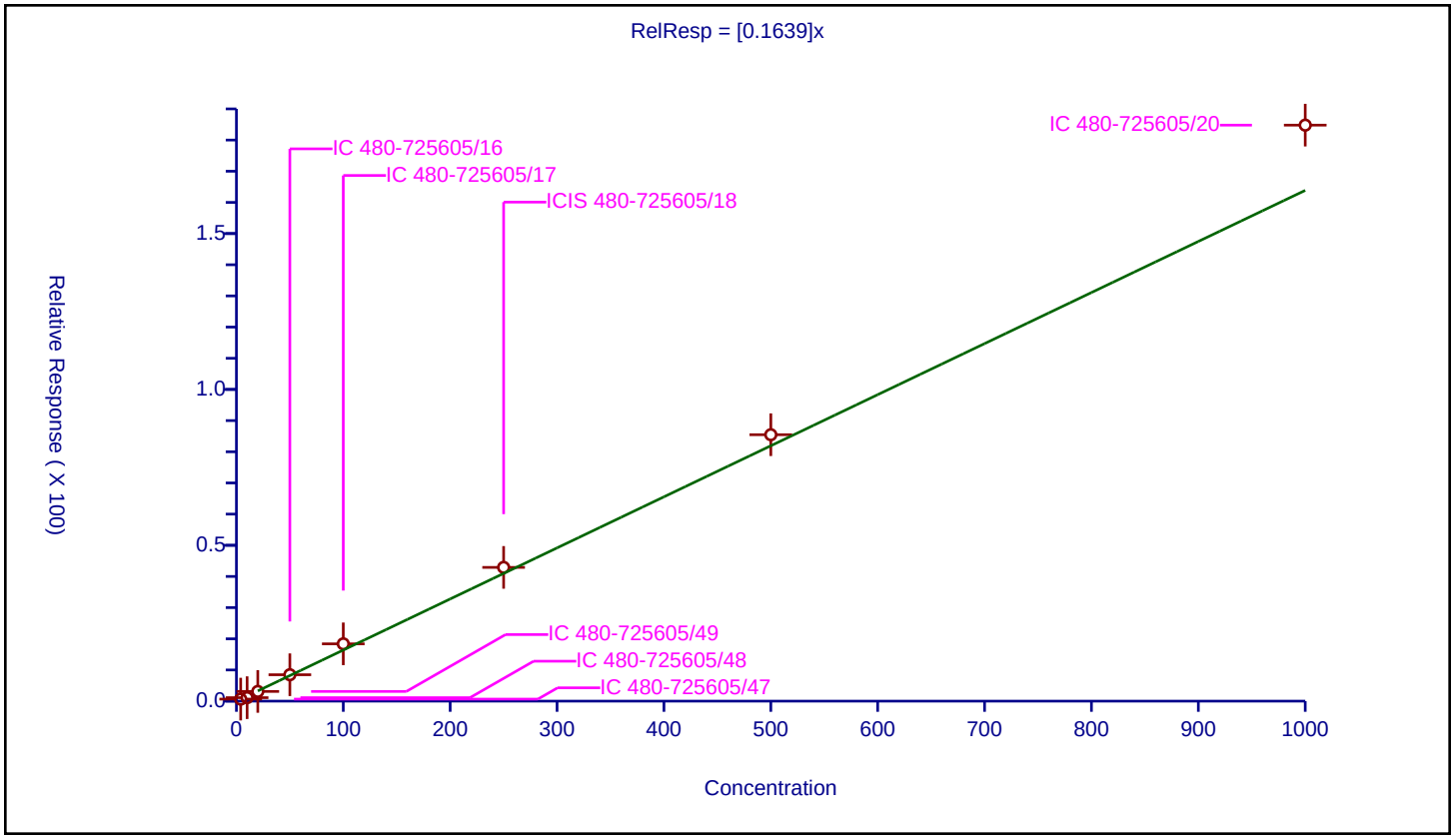
Curve Coefficients

Intercept:	0
Slope:	0.1639

Error Coefficients

Relative Standard Deviation:	14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	4.0	0.650294	25.0	190760.0	0.162573	Y
2	IC 480-725605/48	10.0	1.118587	25.0	189279.0	0.111859	Y
3	IC 480-725605/49	20.0	3.116756	25.0	188401.0	0.155838	Y
4	IC 480-725605/16	50.0	8.468218	25.0	179536.0	0.169364	Y
5	IC 480-725605/17	100.0	18.386042	25.0	175020.0	0.18386	Y
6	ICIS 480-725605/18	250.0	42.906275	25.0	171768.0	0.171625	Y
7	IC 480-725605/19	500.0	85.473839	25.0	171630.0	0.170948	Y
8	IC 480-725605/20	1000.0	184.784196	25.0	168463.0	0.184784	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

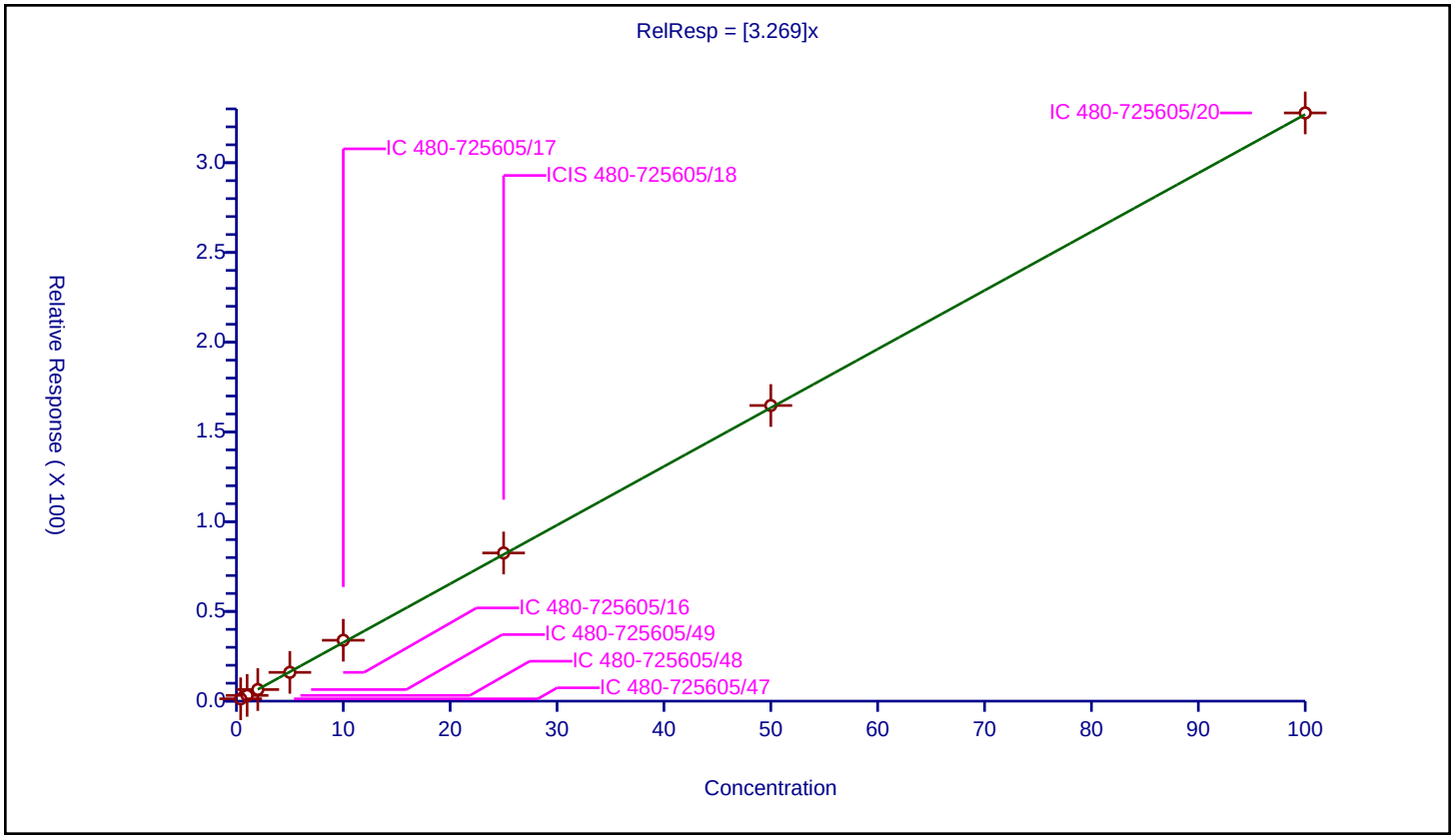
Curve Coefficients

Intercept:	0
Slope:	3.269

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.301242	25.0	190760.0	3.253106	Y
2	IC 480-725605/48	1.0	3.191981	25.0	189279.0	3.191981	Y
3	IC 480-725605/49	2.0	6.468384	25.0	188401.0	3.234192	Y
4	IC 480-725605/16	5.0	16.035363	25.0	179536.0	3.207073	Y
5	IC 480-725605/17	10.0	33.926266	25.0	175020.0	3.392627	Y
6	ICIS 480-725605/18	25.0	82.566893	25.0	171768.0	3.302676	Y
7	IC 480-725605/19	50.0	164.73708	25.0	171630.0	3.294742	Y
8	IC 480-725605/20	100.0	327.74259	25.0	168463.0	3.277426	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

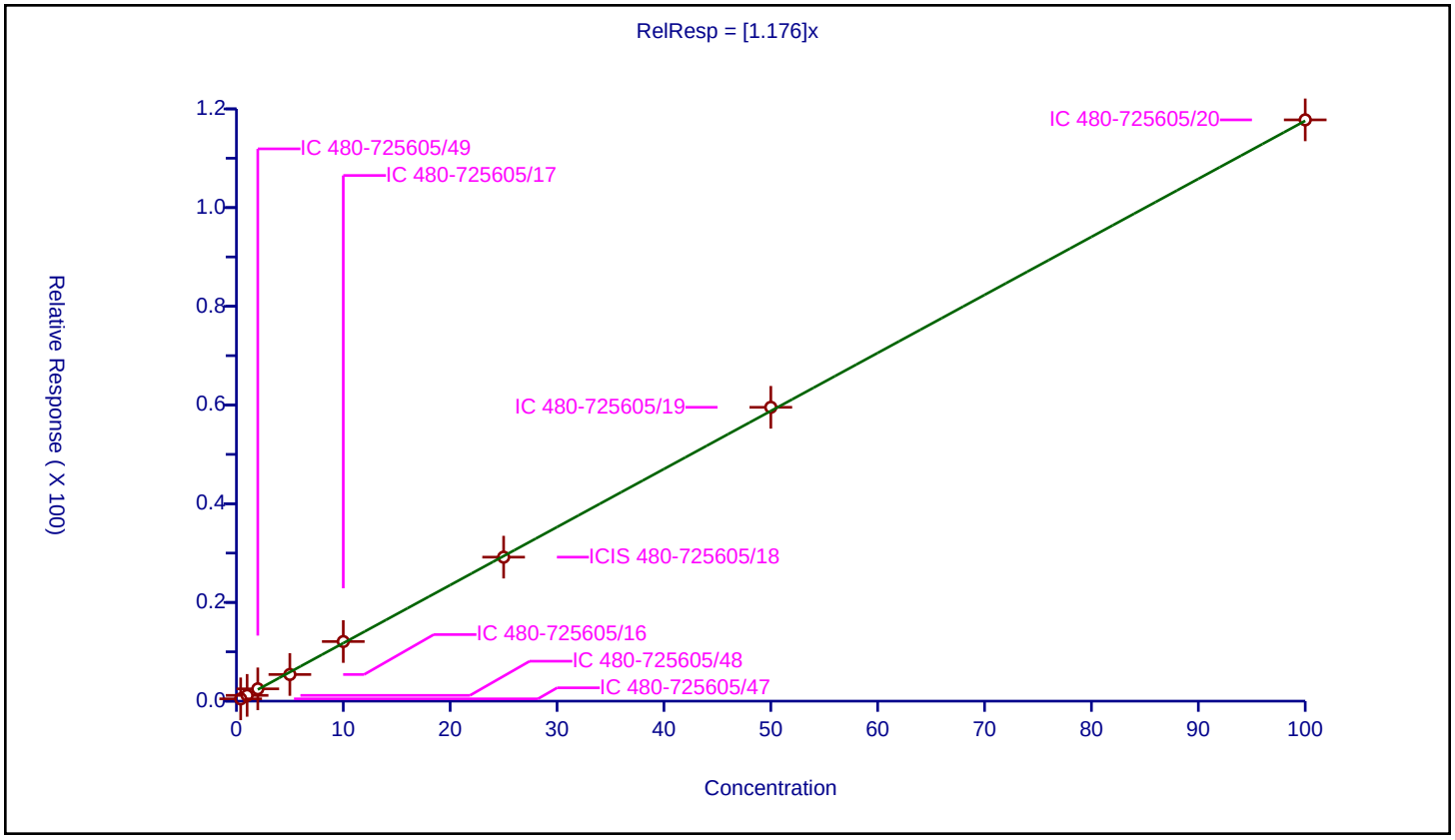
Curve Coefficients

Intercept:	0
Slope:	1.176

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.467472	25.0	190760.0	1.168681	Y
2	IC 480-725605/48	1.0	1.168381	25.0	189279.0	1.168381	Y
3	IC 480-725605/49	2.0	2.49176	25.0	188401.0	1.24588	Y
4	IC 480-725605/16	5.0	5.401841	25.0	179536.0	1.080368	Y
5	IC 480-725605/17	10.0	12.079905	25.0	175020.0	1.207991	Y
6	ICIS 480-725605/18	25.0	29.177874	25.0	171768.0	1.167115	Y
7	IC 480-725605/19	50.0	59.538251	25.0	171630.0	1.190765	Y
8	IC 480-725605/20	100.0	117.774971	25.0	168463.0	1.17775	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

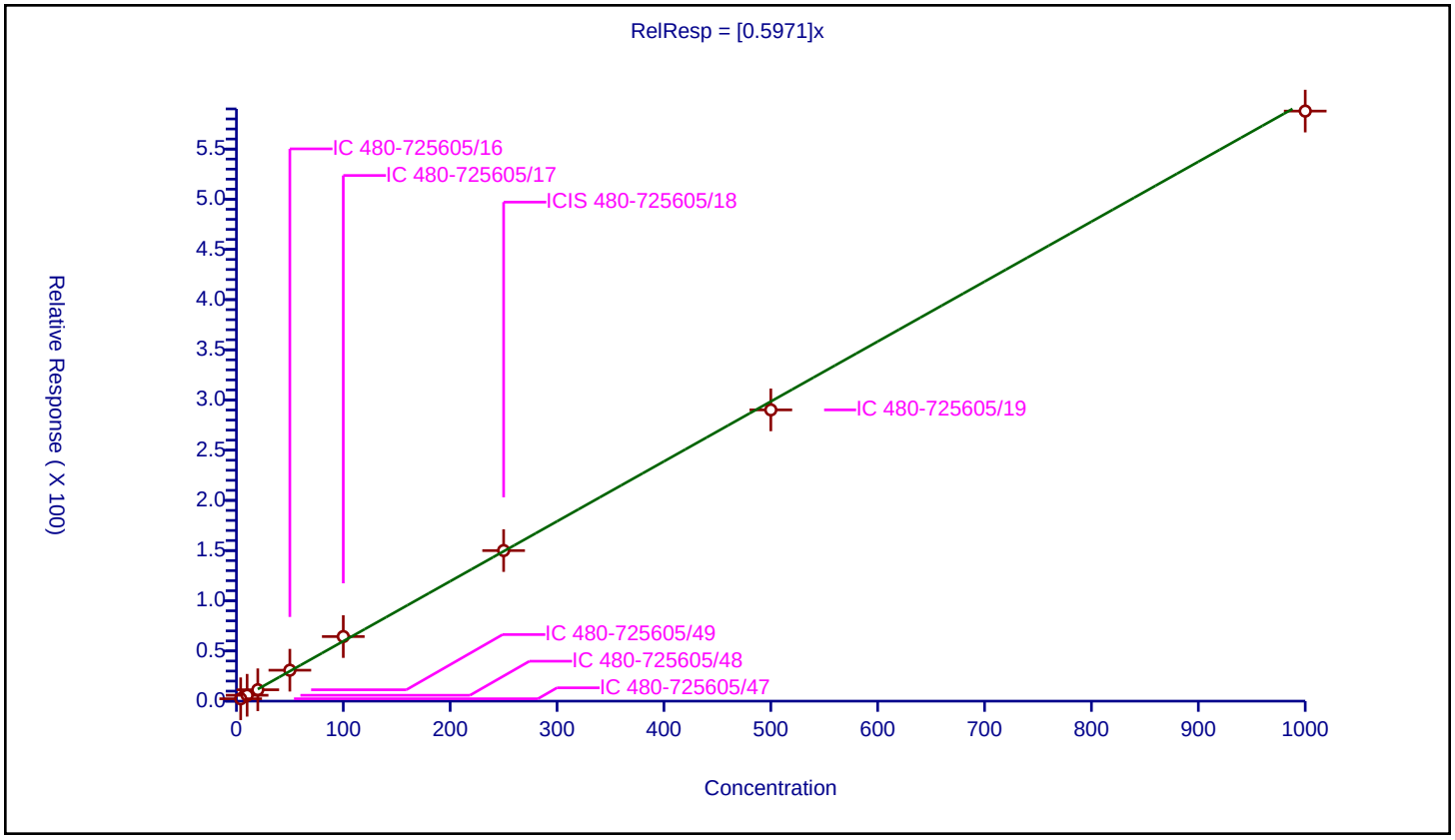
Curve Coefficients

Intercept:	0
Slope:	0.5971

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	4.0	2.38323	25.0	190760.0	0.595808	Y
2	IC 480-725605/48	10.0	5.859472	25.0	189279.0	0.585947	Y
3	IC 480-725605/49	20.0	11.341633	25.0	188401.0	0.567082	Y
4	IC 480-725605/16	50.0	30.815825	25.0	179536.0	0.616317	Y
5	IC 480-725605/17	100.0	64.339504	25.0	175020.0	0.643395	Y
6	ICIS 480-725605/18	250.0	150.01077	25.0	171768.0	0.600043	Y
7	IC 480-725605/19	500.0	290.15513	25.0	171630.0	0.58031	Y
8	IC 480-725605/20	1000.0	587.829969	25.0	168463.0	0.58783	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

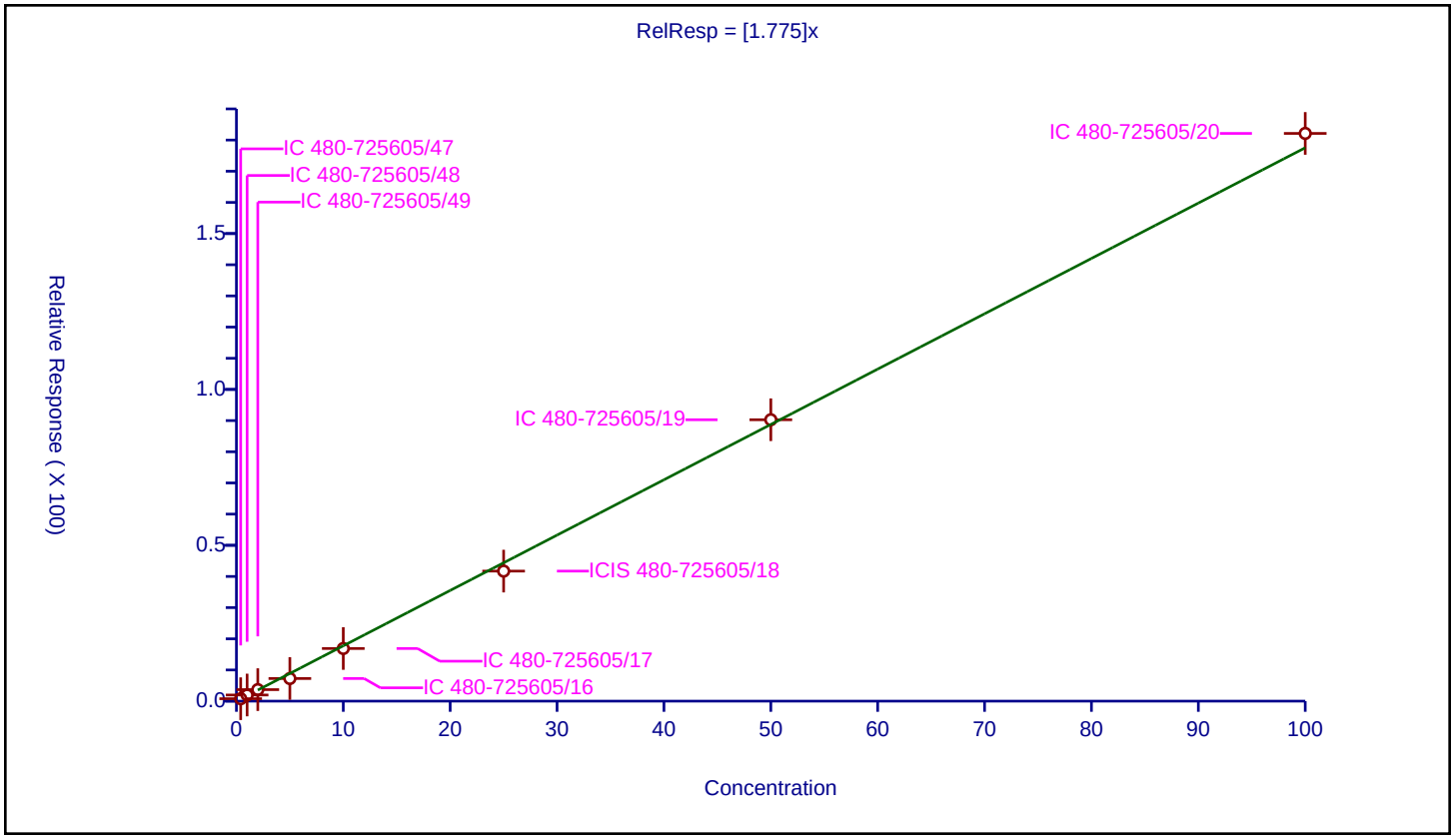
Curve Coefficients

Intercept:	0
Slope:	1.775

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.780431	25.0	190760.0	1.951077	Y
2	IC 480-725605/48	1.0	1.965221	25.0	189279.0	1.965221	Y
3	IC 480-725605/49	2.0	3.699688	25.0	188401.0	1.849844	Y
4	IC 480-725605/16	5.0	7.259408	25.0	179536.0	1.451882	Y
5	IC 480-725605/17	10.0	16.88707	25.0	175020.0	1.688707	Y
6	ICIS 480-725605/18	25.0	41.716152	25.0	171768.0	1.668646	Y
7	IC 480-725605/19	50.0	90.276758	25.0	171630.0	1.805535	Y
8	IC 480-725605/20	100.0	182.126787	25.0	168463.0	1.821268	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

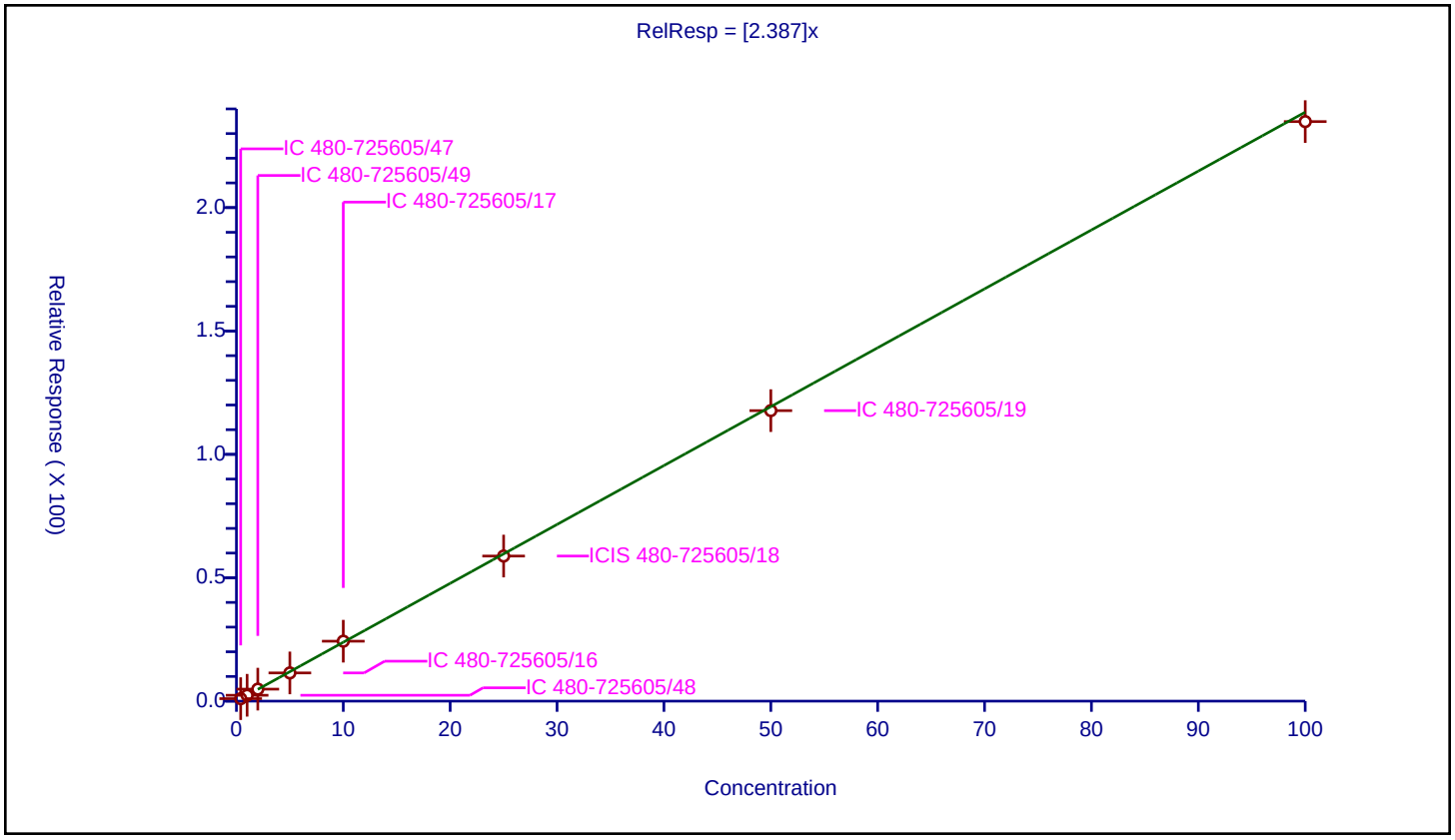
Curve Coefficients

Intercept:	0
Slope:	2.387

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.005583	25.0	190760.0	2.513957	Y
2	IC 480-725605/48	1.0	2.377575	25.0	189279.0	2.377575	Y
3	IC 480-725605/49	2.0	4.865022	25.0	188401.0	2.432511	Y
4	IC 480-725605/16	5.0	11.42988	25.0	179536.0	2.285976	Y
5	IC 480-725605/17	10.0	24.289795	25.0	175020.0	2.42898	Y
6	ICIS 480-725605/18	25.0	58.791655	25.0	171768.0	2.351666	Y
7	IC 480-725605/19	50.0	117.722863	25.0	171630.0	2.354457	Y
8	IC 480-725605/20	100.0	234.849937	25.0	168463.0	2.348499	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

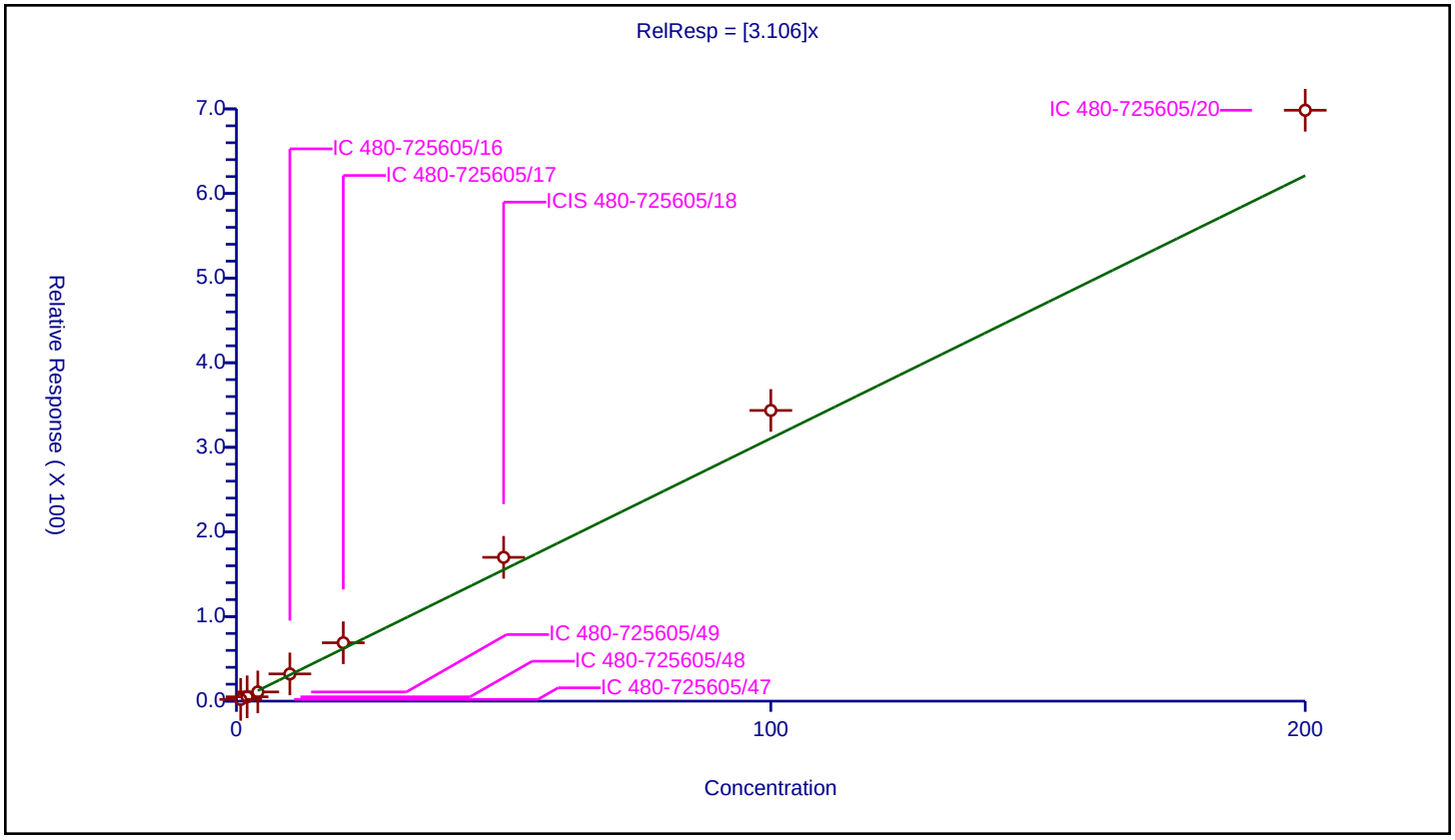
Curve Coefficients

Intercept:	0
Slope:	3.106

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.8	2.061884	25.0	190760.0	2.577355	Y
2	IC 480-725605/48	2.0	5.101728	25.0	189279.0	2.550864	Y
3	IC 480-725605/49	4.0	10.871227	25.0	188401.0	2.717807	Y
4	IC 480-725605/16	10.0	32.203291	25.0	179536.0	3.220329	Y
5	IC 480-725605/17	20.0	69.031682	25.0	175020.0	3.451584	Y
6	ICIS 480-725605/18	50.0	169.976218	25.0	171768.0	3.399524	Y
7	IC 480-725605/19	100.0	343.582707	25.0	171630.0	3.435827	Y
8	IC 480-725605/20	200.0	698.408256	25.0	168463.0	3.492041	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

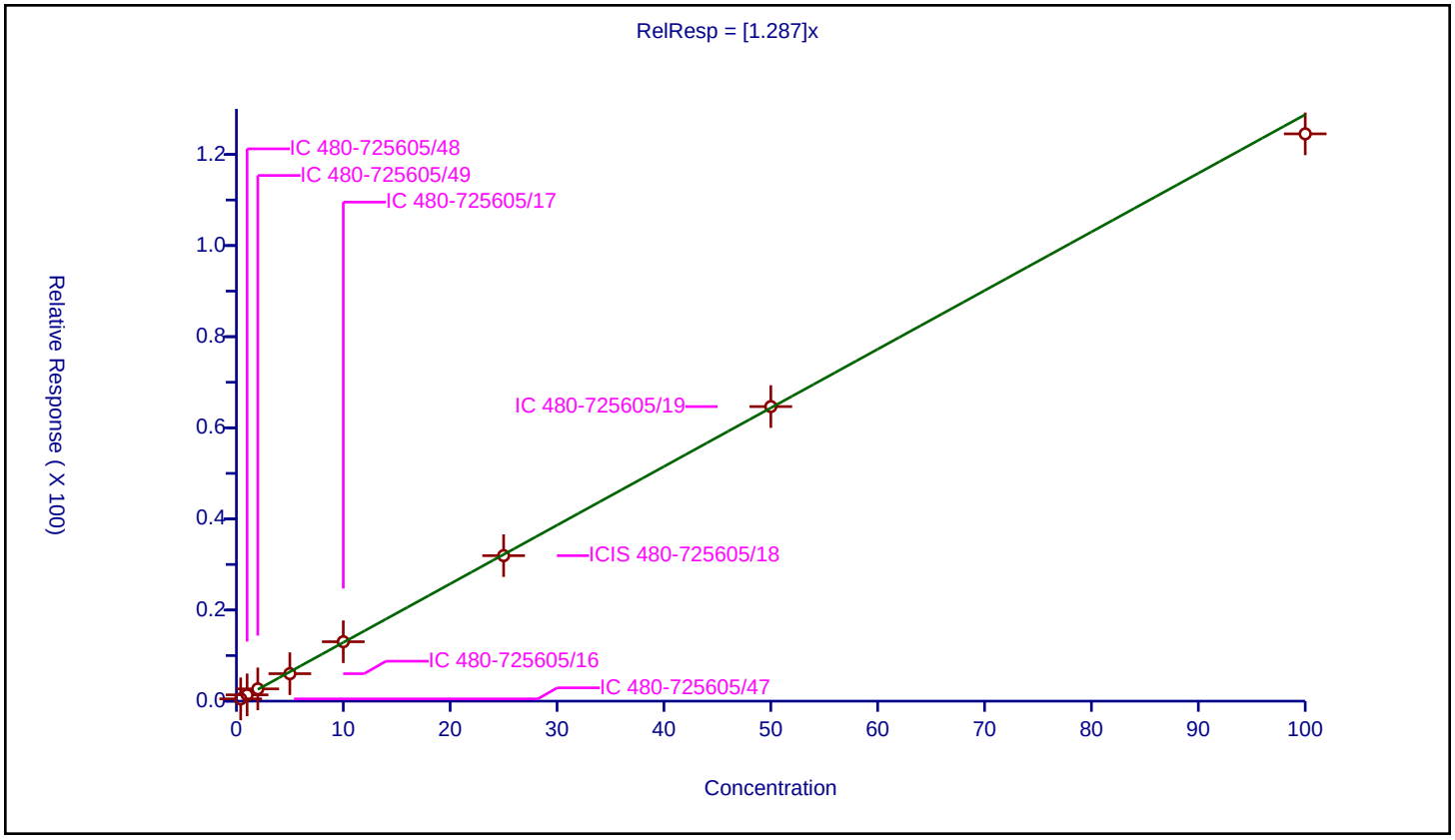
Curve Coefficients

Intercept:	0
Slope:	1.287

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.49696	25.0	190760.0	1.242399	Y
2	IC 480-725605/48	1.0	1.385389	25.0	189279.0	1.385389	Y
3	IC 480-725605/49	2.0	2.694784	25.0	188401.0	1.347392	Y
4	IC 480-725605/16	5.0	6.022191	25.0	179536.0	1.204438	Y
5	IC 480-725605/17	10.0	13.041795	25.0	175020.0	1.30418	Y
6	ICIS 480-725605/18	25.0	31.935081	25.0	171768.0	1.277403	Y
7	IC 480-725605/19	50.0	64.659005	25.0	171630.0	1.29318	Y
8	IC 480-725605/20	100.0	124.524525	25.0	168463.0	1.245245	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

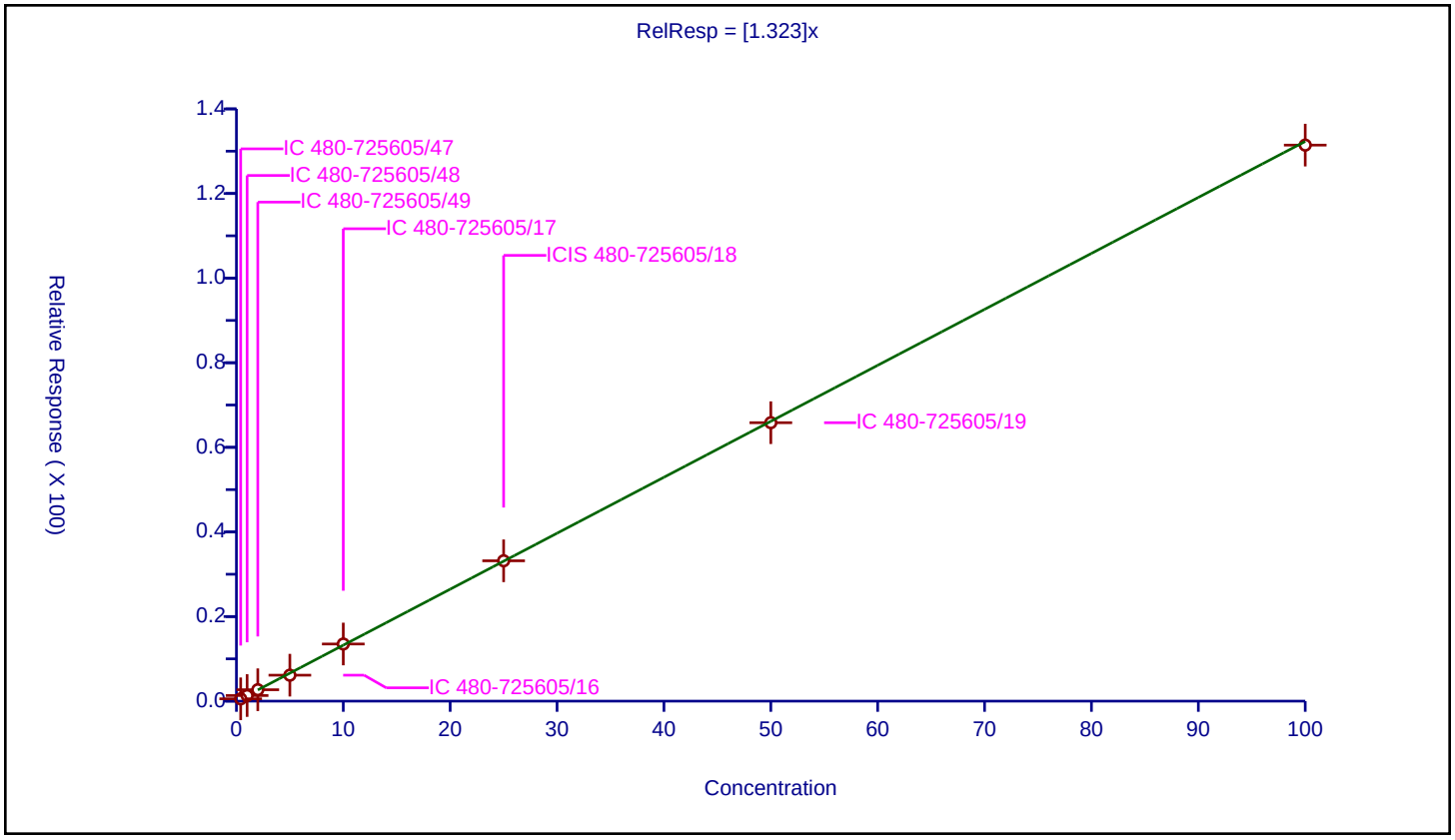
Curve Coefficients

Intercept:	0
Slope:	1.323

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.550168	25.0	190760.0	1.375419	Y
2	IC 480-725605/48	1.0	1.323839	25.0	189279.0	1.323839	Y
3	IC 480-725605/49	2.0	2.696642	25.0	188401.0	1.348321	Y
4	IC 480-725605/16	5.0	6.137905	25.0	179536.0	1.227581	Y
5	IC 480-725605/17	10.0	13.50917	25.0	175020.0	1.350917	Y
6	ICIS 480-725605/18	25.0	33.178473	25.0	171768.0	1.327139	Y
7	IC 480-725605/19	50.0	65.81935	25.0	171630.0	1.316387	Y
8	IC 480-725605/20	100.0	131.438803	25.0	168463.0	1.314388	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

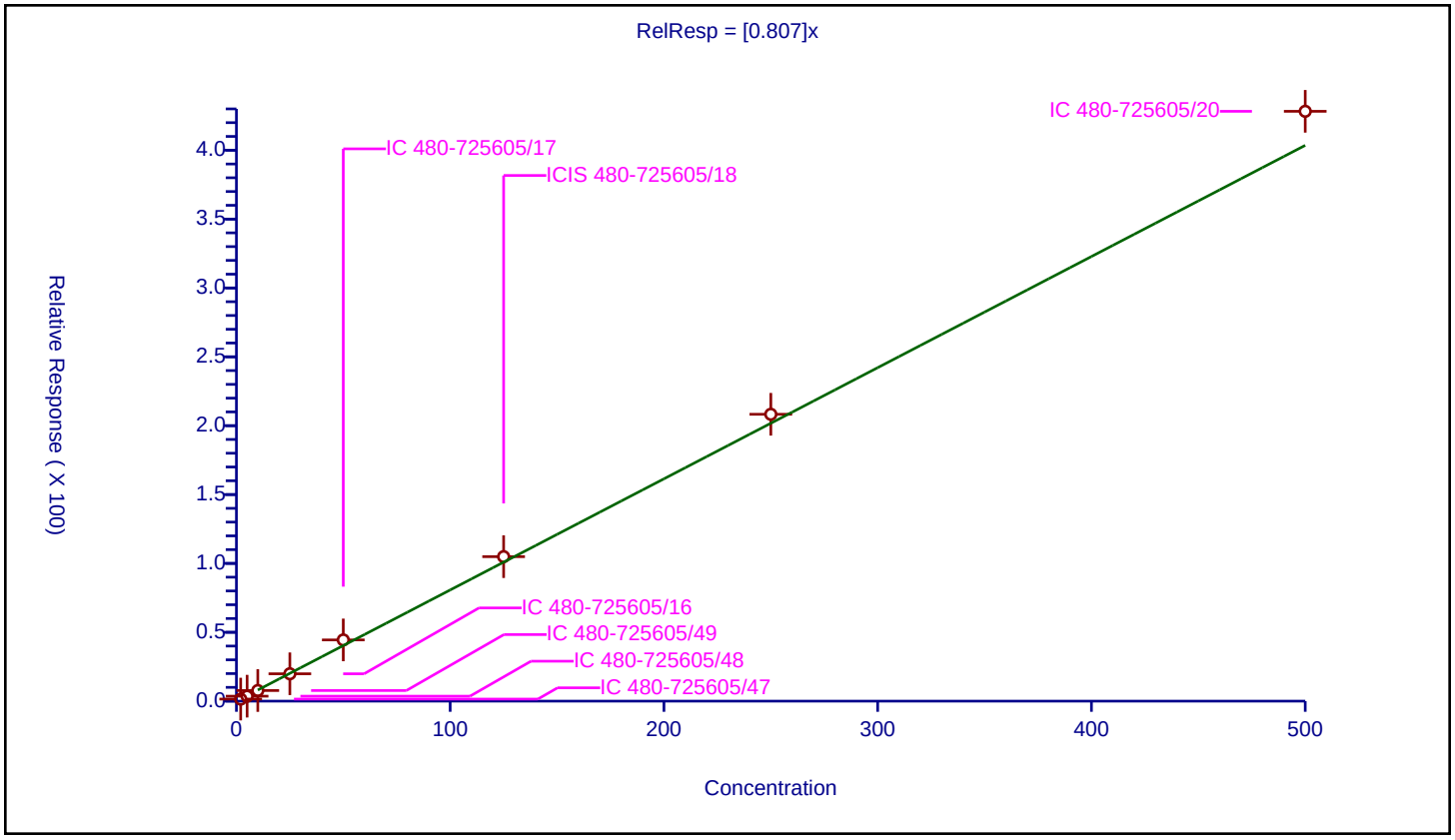
Curve Coefficients

Intercept:	0
Slope:	0.807

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	2.0	1.498611	25.0	190760.0	0.749305	Y
2	IC 480-725605/48	5.0	3.61477	25.0	189279.0	0.722954	Y
3	IC 480-725605/49	10.0	7.713202	25.0	188401.0	0.77132	Y
4	IC 480-725605/16	25.0	19.876097	25.0	179536.0	0.795044	Y
5	IC 480-725605/17	50.0	44.445206	25.0	175020.0	0.888904	Y
6	ICIS 480-725605/18	125.0	104.905308	25.0	171768.0	0.839242	Y
7	IC 480-725605/19	250.0	208.272884	25.0	171630.0	0.833092	Y
8	IC 480-725605/20	500.0	428.249675	25.0	168463.0	0.856499	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

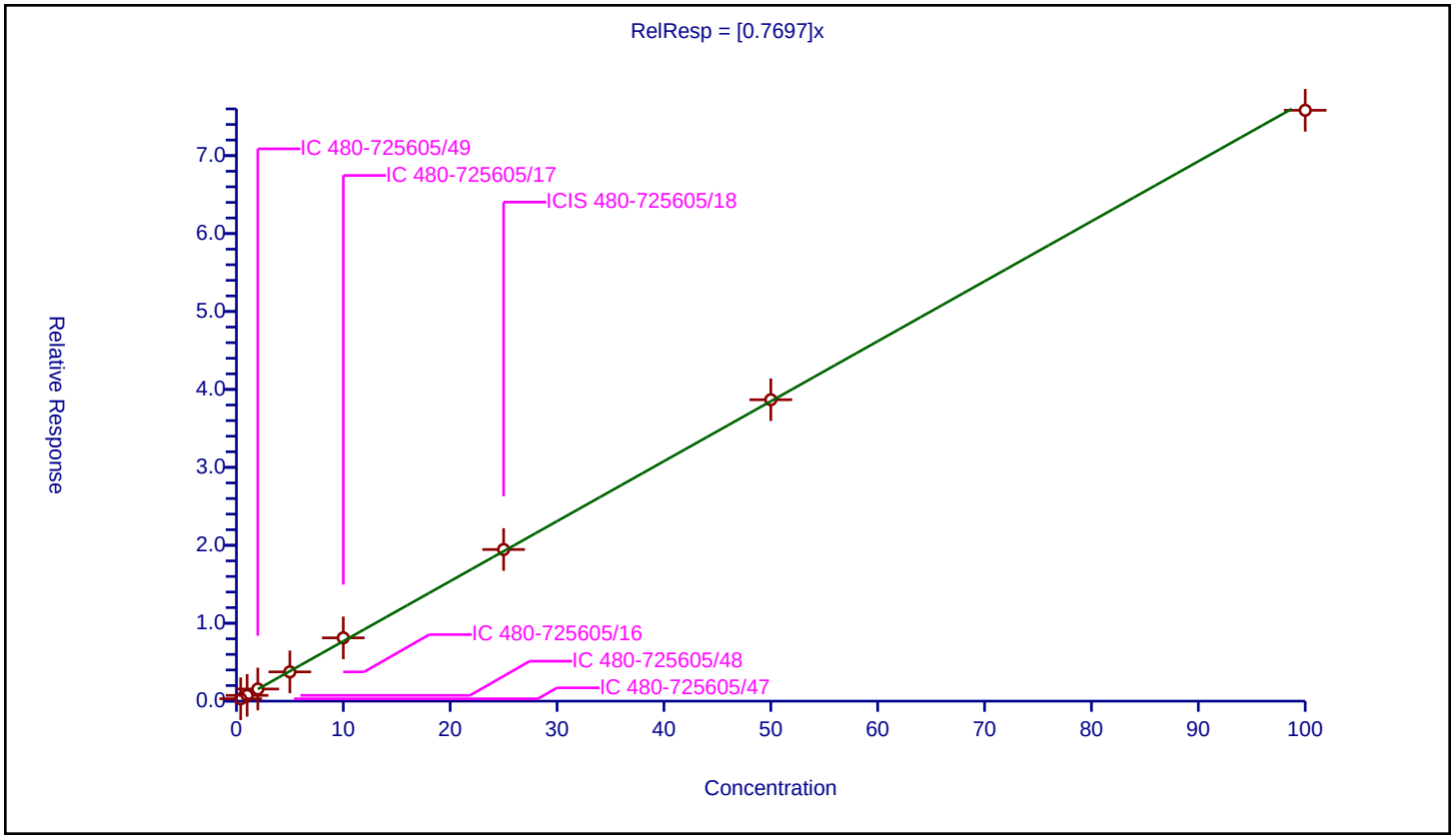
Curve Coefficients

Intercept:	0
Slope:	0.7697

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.306144	25.0	190760.0	0.76536	Y
2	IC 480-725605/48	1.0	0.740706	25.0	189279.0	0.740706	Y
3	IC 480-725605/49	2.0	1.55599	25.0	188401.0	0.777995	Y
4	IC 480-725605/16	5.0	3.755932	25.0	179536.0	0.751186	Y
5	IC 480-725605/17	10.0	8.118501	25.0	175020.0	0.81185	Y
6	ICIS 480-725605/18	25.0	19.460406	25.0	171768.0	0.778416	Y
7	IC 480-725605/19	50.0	38.677824	25.0	171630.0	0.773556	Y
8	IC 480-725605/20	100.0	75.822139	25.0	168463.0	0.758221	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

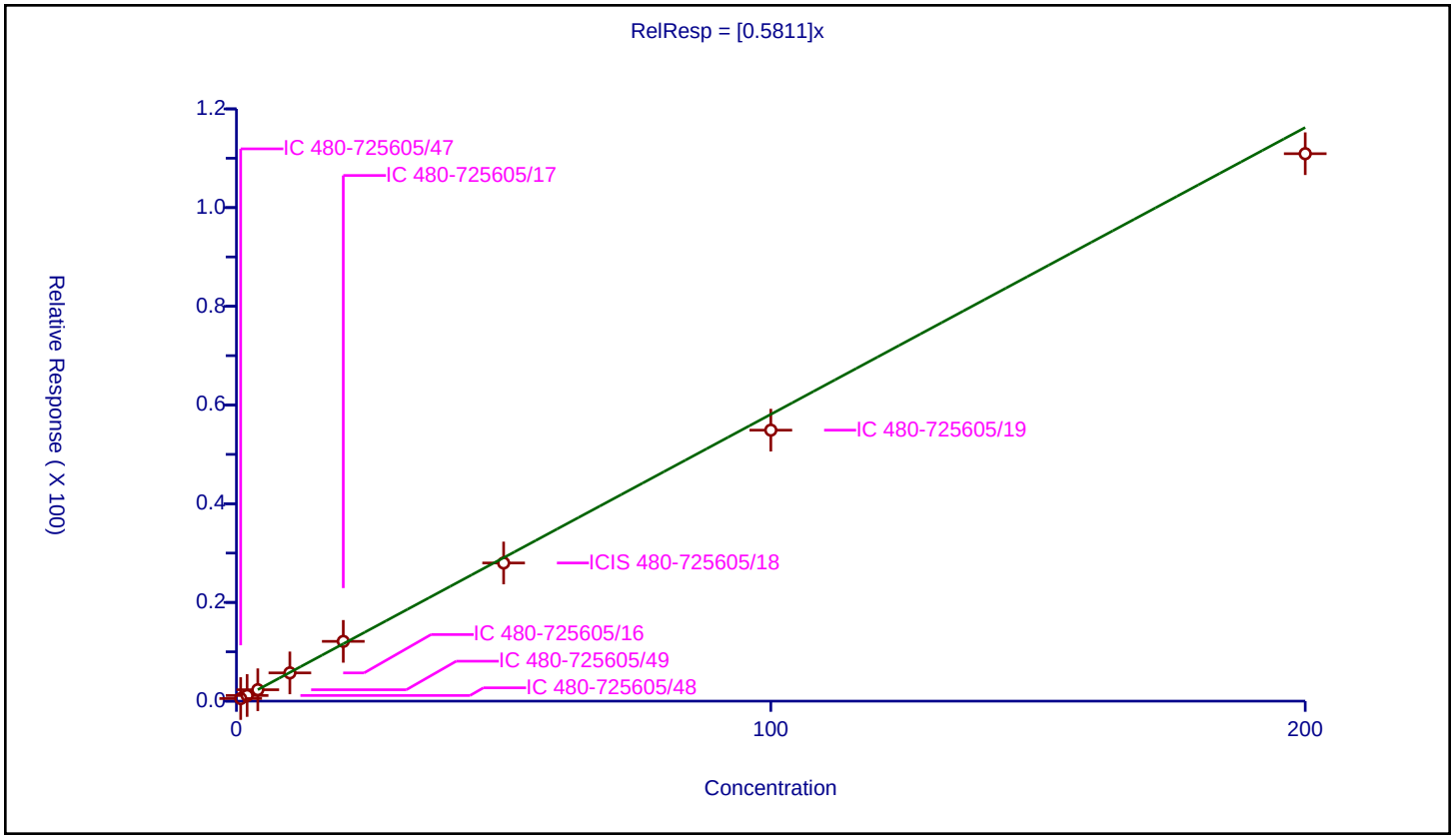
Curve Coefficients

Intercept:	0
Slope:	0.5811

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.8	0.528282	25.0	190760.0	0.660352	Y
2	IC 480-725605/48	2.0	1.138795	25.0	189279.0	0.569398	Y
3	IC 480-725605/49	4.0	2.311028	25.0	188401.0	0.577757	Y
4	IC 480-725605/16	10.0	5.7242	25.0	179536.0	0.57242	Y
5	IC 480-725605/17	20.0	12.113187	25.0	175020.0	0.605659	Y
6	ICIS 480-725605/18	50.0	27.994009	25.0	171768.0	0.55988	Y
7	IC 480-725605/19	100.0	54.908815	25.0	171630.0	0.549088	Y
8	IC 480-725605/20	200.0	110.924209	25.0	168463.0	0.554621	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

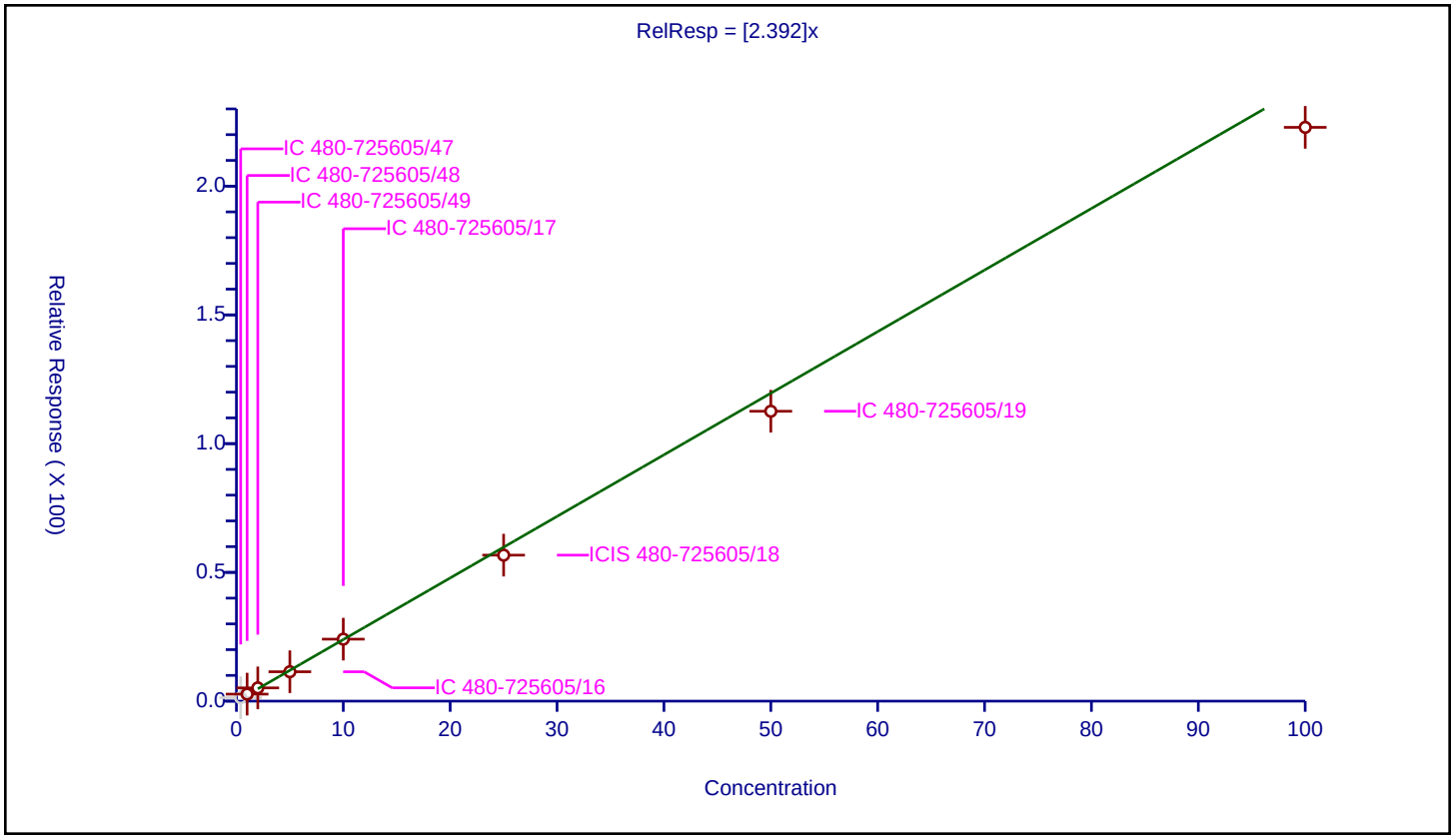
Curve Coefficients

Intercept:	0
Slope:	2.392

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.343835	25.0	190760.0	3.359588	N
2	IC 480-725605/48	1.0	2.729833	25.0	189279.0	2.729833	Y
3	IC 480-725605/49	2.0	5.146602	25.0	188401.0	2.573301	Y
4	IC 480-725605/16	5.0	11.415677	25.0	179536.0	2.283135	Y
5	IC 480-725605/17	10.0	24.07082	25.0	175020.0	2.407082	Y
6	ICIS 480-725605/18	25.0	56.698134	25.0	171768.0	2.267925	Y
7	IC 480-725605/19	50.0	112.577929	25.0	171630.0	2.251559	Y
8	IC 480-725605/20	100.0	222.829049	25.0	168463.0	2.22829	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

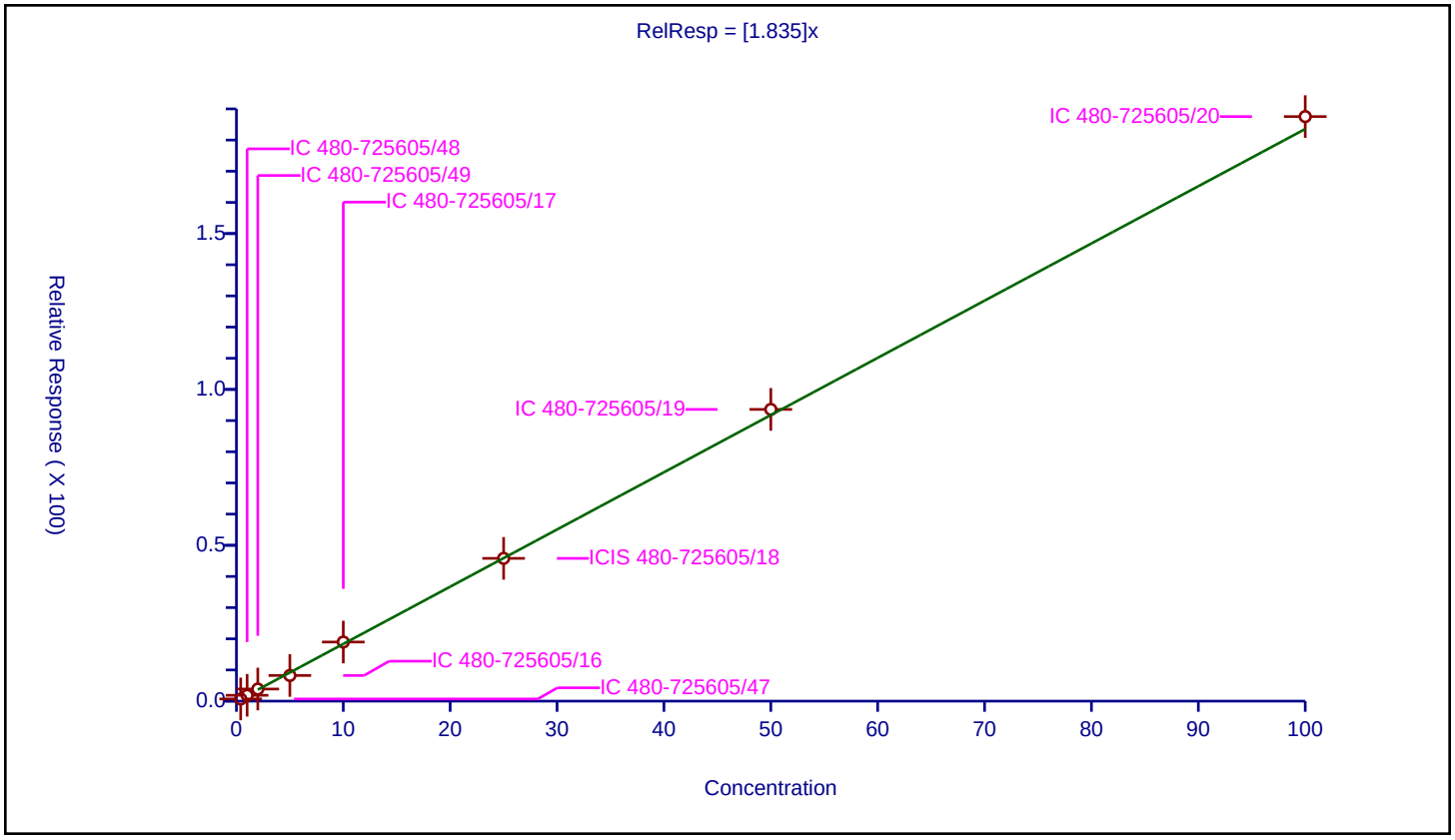
Curve Coefficients

Intercept:	0
Slope:	1.835

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.699832	25.0	190760.0	1.749581	Y
2	IC 480-725605/48	1.0	1.87184	25.0	189279.0	1.87184	Y
3	IC 480-725605/49	2.0	3.880553	25.0	188401.0	1.940276	Y
4	IC 480-725605/16	5.0	8.22913	25.0	179536.0	1.645826	Y
5	IC 480-725605/17	10.0	18.967404	25.0	175020.0	1.89674	Y
6	ICIS 480-725605/18	25.0	45.798839	25.0	171768.0	1.831954	Y
7	IC 480-725605/19	50.0	93.594069	25.0	171630.0	1.871881	Y
8	IC 480-725605/20	100.0	187.528864	25.0	168463.0	1.875289	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

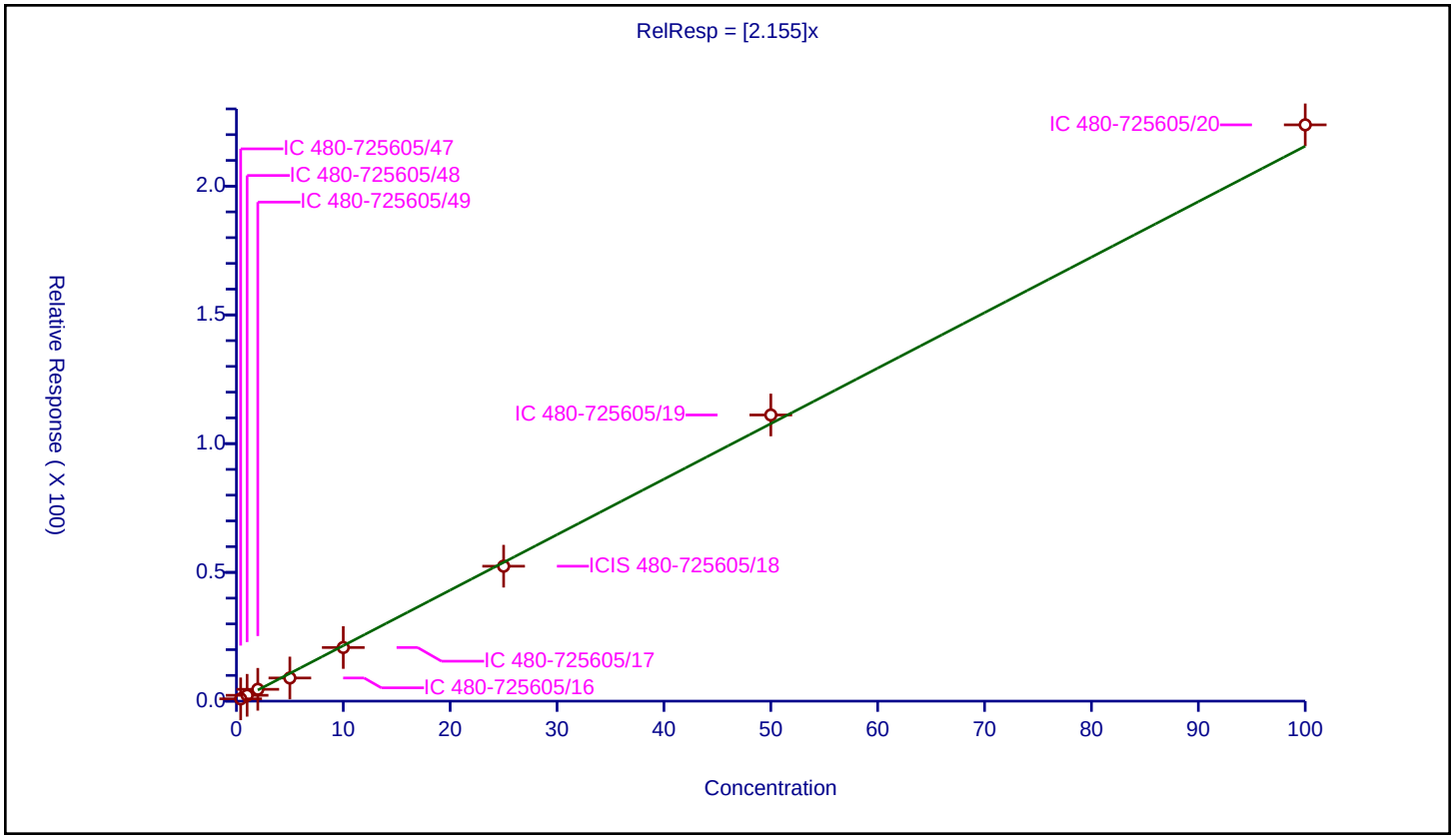
Curve Coefficients

Intercept:	0
Slope:	2.155

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.893269	25.0	190760.0	2.233173	Y
2	IC 480-725605/48	1.0	2.272703	25.0	189279.0	2.272703	Y
3	IC 480-725605/49	2.0	4.595119	25.0	188401.0	2.297559	Y
4	IC 480-725605/16	5.0	8.994018	25.0	179536.0	1.798804	Y
5	IC 480-725605/17	10.0	20.82762	25.0	175020.0	2.082762	Y
6	ICIS 480-725605/18	25.0	52.407026	25.0	171768.0	2.096281	Y
7	IC 480-725605/19	50.0	111.132815	25.0	171630.0	2.222656	Y
8	IC 480-725605/20	100.0	223.802259	25.0	168463.0	2.238023	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

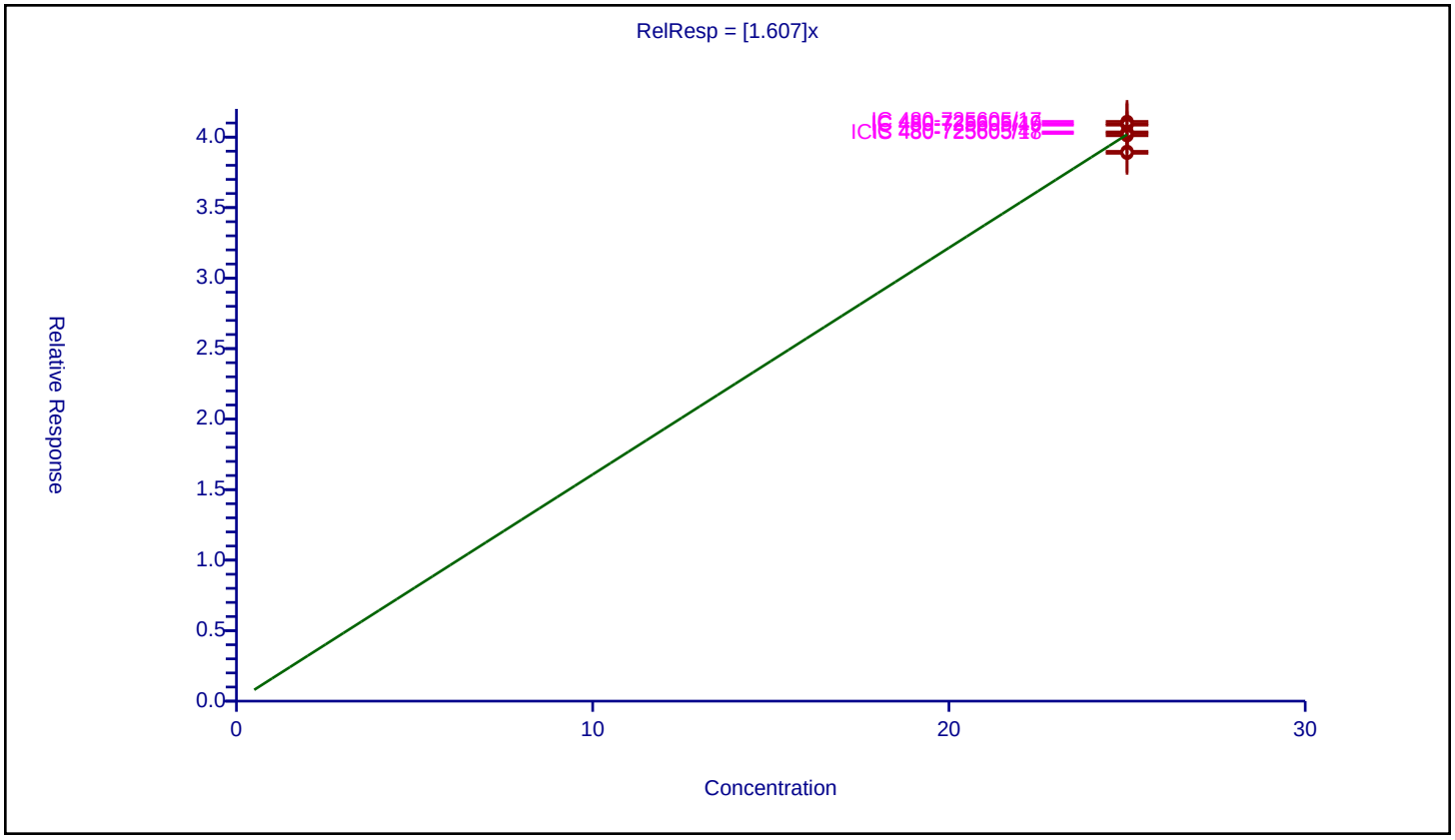
Curve Coefficients

Intercept:	0
Slope:	1.607

Error Coefficients

Relative Standard Deviation:	2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/16	25.0	40.949865	25.0	179536.0	1.637995	Y
2	IC 480-725605/17	25.0	41.111444	25.0	175020.0	1.644458	Y
3	ICIS 480-725605/18	25.0	40.258226	25.0	171768.0	1.610329	Y
4	IC 480-725605/19	25.0	38.991144	25.0	171630.0	1.559646	Y
5	IC 480-725605/20	25.0	38.849035	25.0	168463.0	1.553961	Y
6	IC 480-725605/47	25.0	40.369574	25.0	190760.0	1.614783	Y
7	IC 480-725605/48	25.0	40.097026	25.0	189279.0	1.603881	Y
8	IC 480-725605/49	25.0	40.846519	25.0	188401.0	1.633861	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

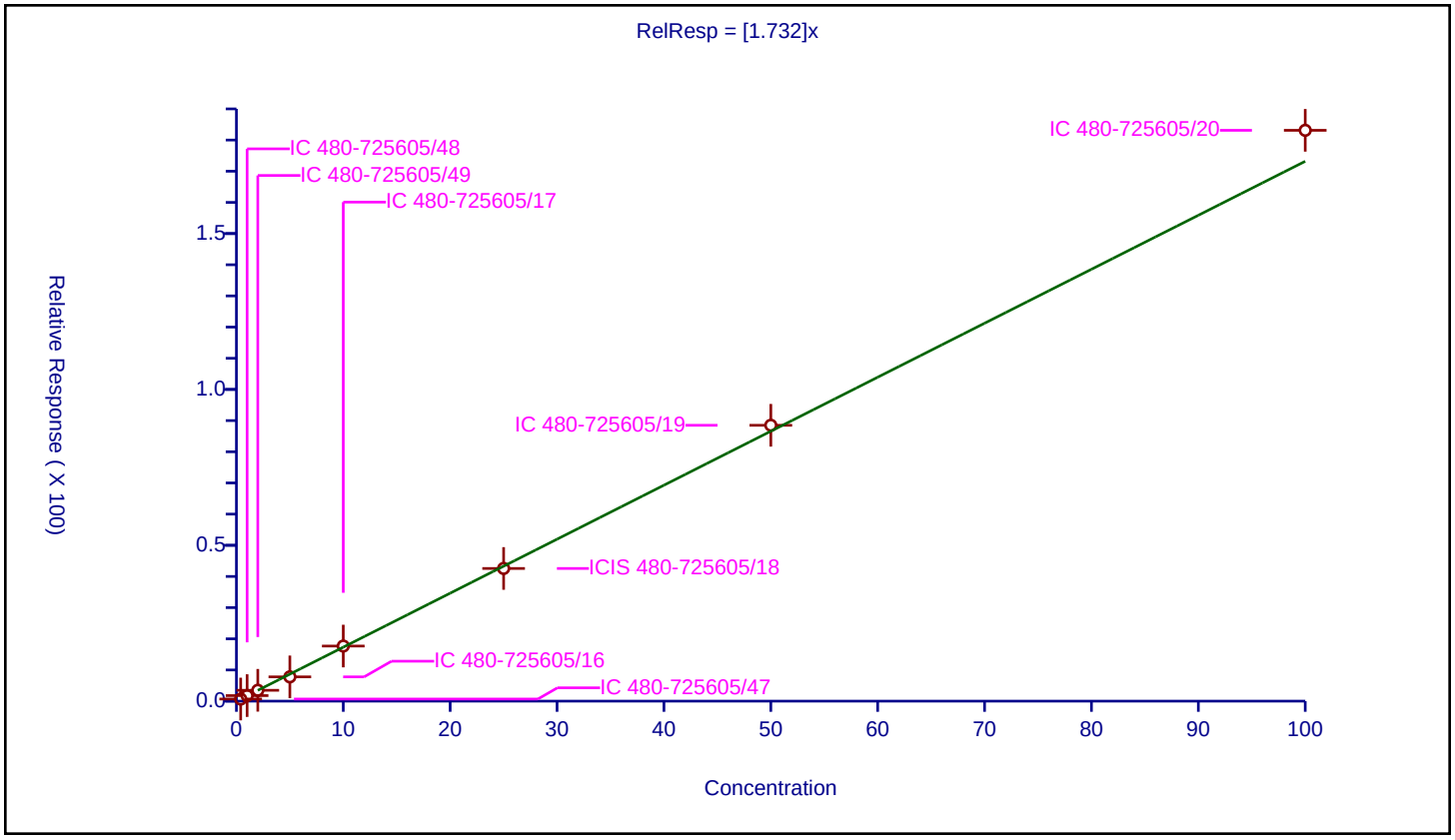
Curve Coefficients

Intercept:	0
Slope:	1.732

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.682271	25.0	190760.0	1.705677	Y
2	IC 480-725605/48	1.0	1.778327	25.0	189279.0	1.778327	Y
3	IC 480-725605/49	2.0	3.48565	25.0	188401.0	1.742825	Y
4	IC 480-725605/16	5.0	7.78479	25.0	179536.0	1.556958	Y
5	IC 480-725605/17	10.0	17.672837	25.0	175020.0	1.767284	Y
6	ICIS 480-725605/18	25.0	42.564389	25.0	171768.0	1.702576	Y
7	IC 480-725605/19	50.0	88.500554	25.0	171630.0	1.770011	Y
8	IC 480-725605/20	100.0	183.121516	25.0	168463.0	1.831215	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

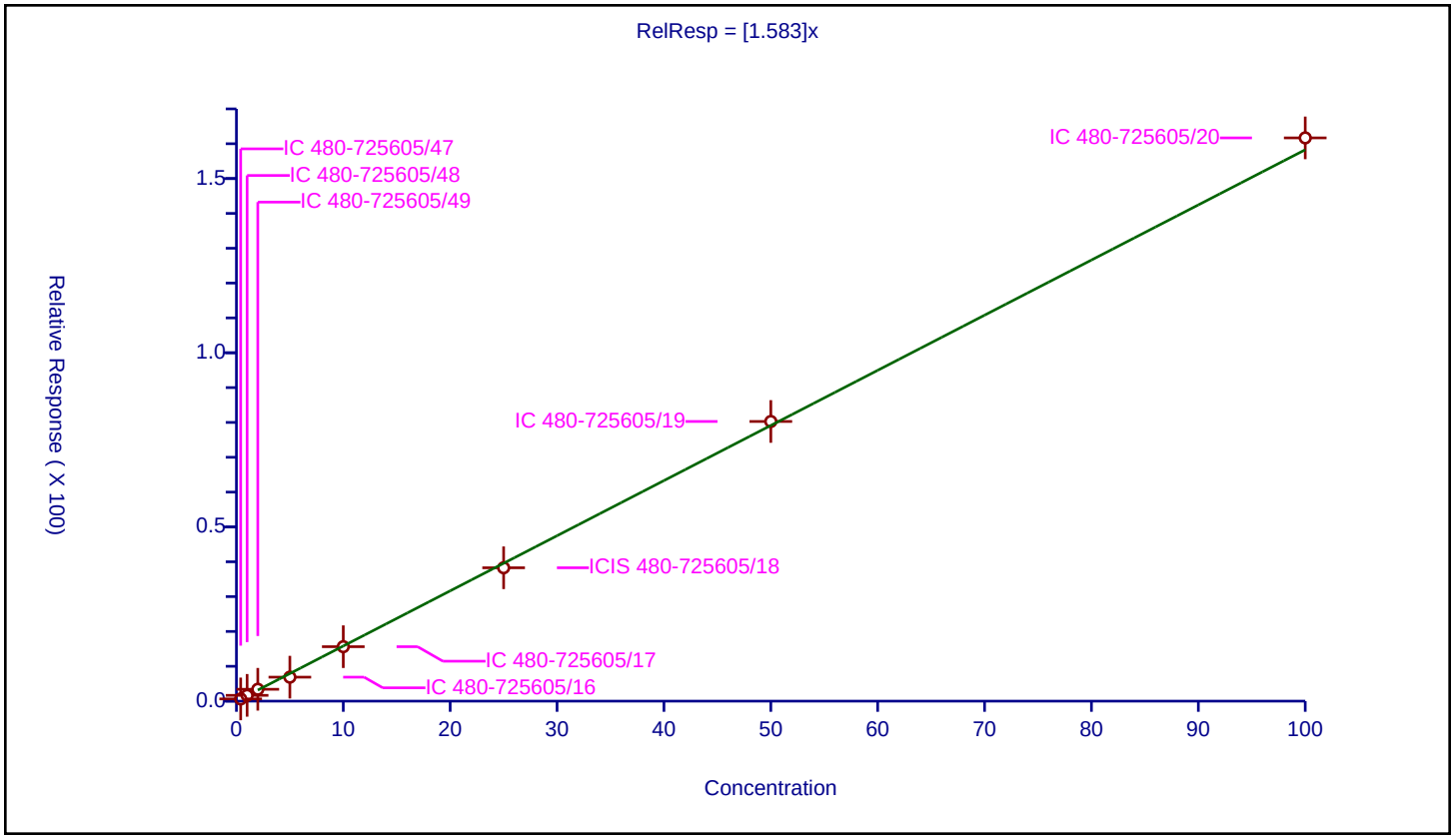
Curve Coefficients

Intercept:	0
Slope:	1.583

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.641382	25.0	190760.0	1.603455	Y
2	IC 480-725605/48	1.0	1.661833	25.0	189279.0	1.661833	Y
3	IC 480-725605/49	2.0	3.404042	25.0	188401.0	1.702021	Y
4	IC 480-725605/16	5.0	6.886502	25.0	179536.0	1.3773	Y
5	IC 480-725605/17	10.0	15.631071	25.0	175020.0	1.563107	Y
6	ICIS 480-725605/18	25.0	38.279103	25.0	171768.0	1.531164	Y
7	IC 480-725605/19	50.0	80.274282	25.0	171630.0	1.605486	Y
8	IC 480-725605/20	100.0	161.677193	25.0	168463.0	1.616772	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

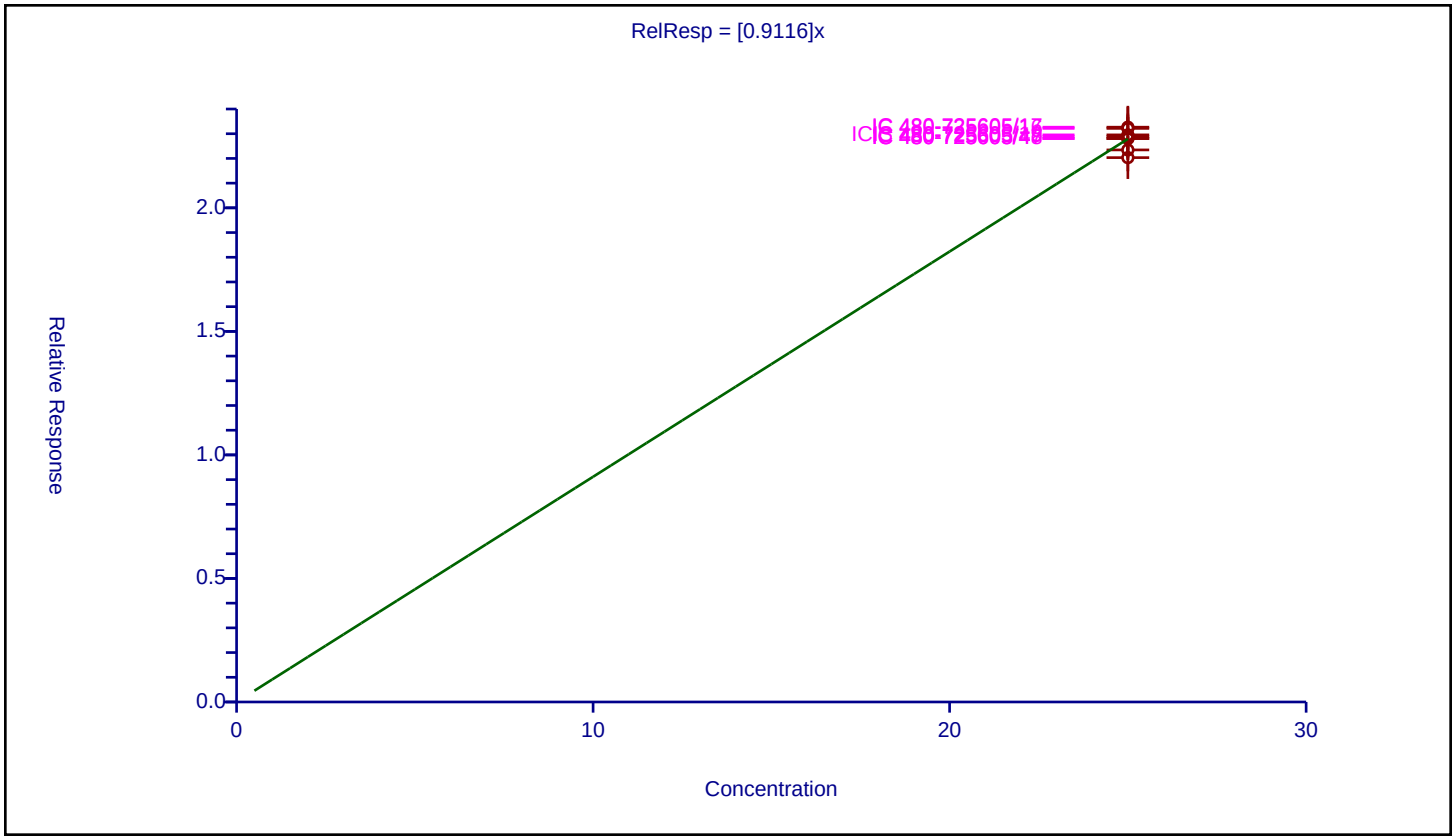
Curve Coefficients

Intercept:	0
Slope:	0.9116

Error Coefficients

Relative Standard Deviation:	1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/16	25.0	23.215121	25.0	179536.0	0.928605	Y
2	IC 480-725605/17	25.0	23.264484	25.0	175020.0	0.930579	Y
3	ICIS 480-725605/18	25.0	22.953053	25.0	171768.0	0.918122	Y
4	IC 480-725605/19	25.0	22.344724	25.0	171630.0	0.893789	Y
5	IC 480-725605/20	25.0	22.032434	25.0	168463.0	0.881297	Y
6	IC 480-725605/47	25.0	22.80195	25.0	190760.0	0.912078	Y
7	IC 480-725605/48	25.0	22.813149	25.0	189279.0	0.912526	Y
8	IC 480-725605/49	25.0	22.886025	25.0	188401.0	0.915441	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

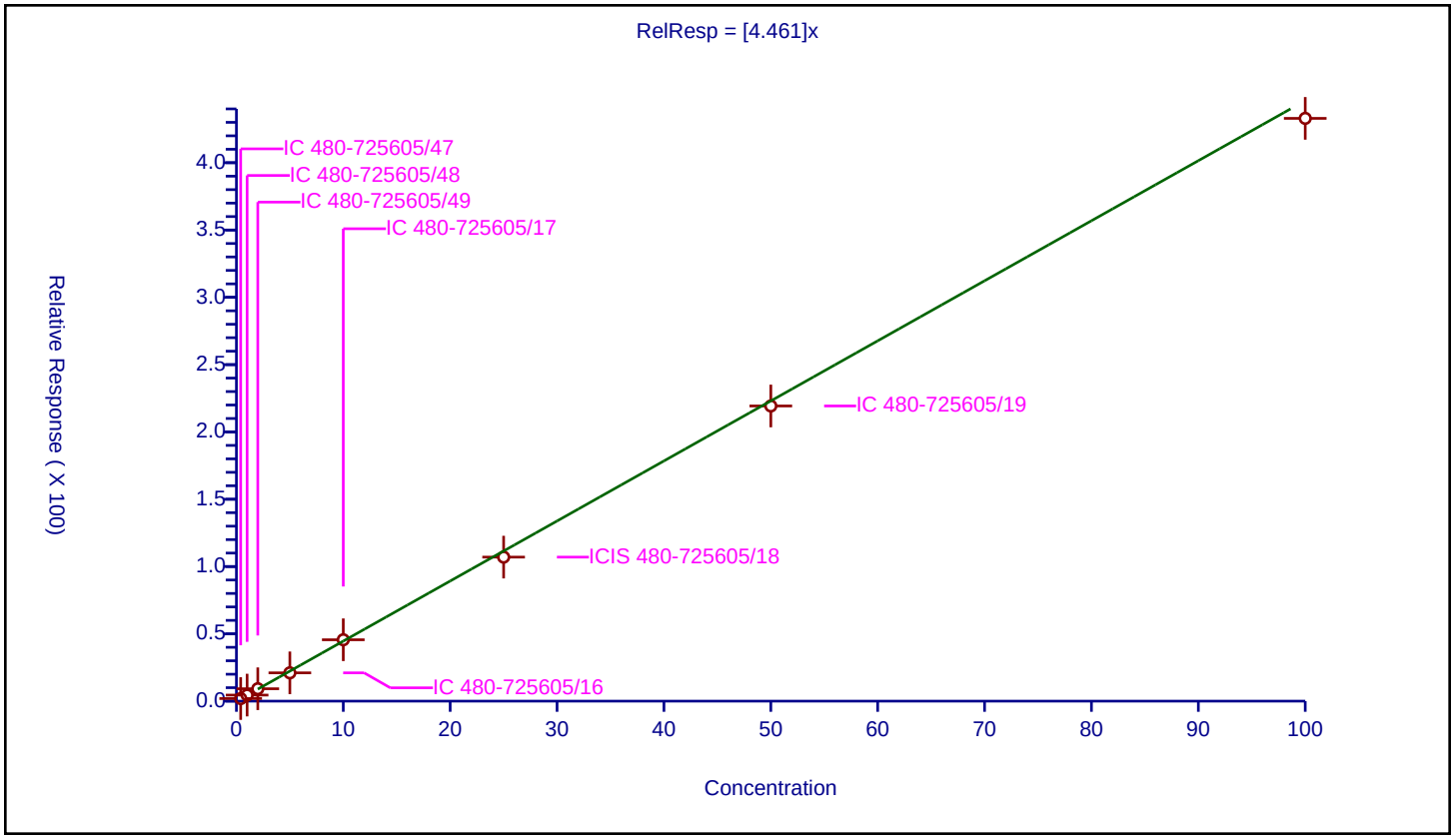
Curve Coefficients

Intercept:	0
Slope:	4.461

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.926636	25.0	190760.0	4.816589	Y
2	IC 480-725605/48	1.0	4.501556	25.0	189279.0	4.501556	Y
3	IC 480-725605/49	2.0	9.22036	25.0	188401.0	4.61018	Y
4	IC 480-725605/16	5.0	21.026145	25.0	179536.0	4.205229	Y
5	IC 480-725605/17	10.0	45.602931	25.0	175020.0	4.560293	Y
6	ICIS 480-725605/18	25.0	107.001595	25.0	171768.0	4.280064	Y
7	IC 480-725605/19	50.0	219.299074	25.0	171630.0	4.385981	Y
8	IC 480-725605/20	100.0	432.958869	25.0	168463.0	4.329589	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

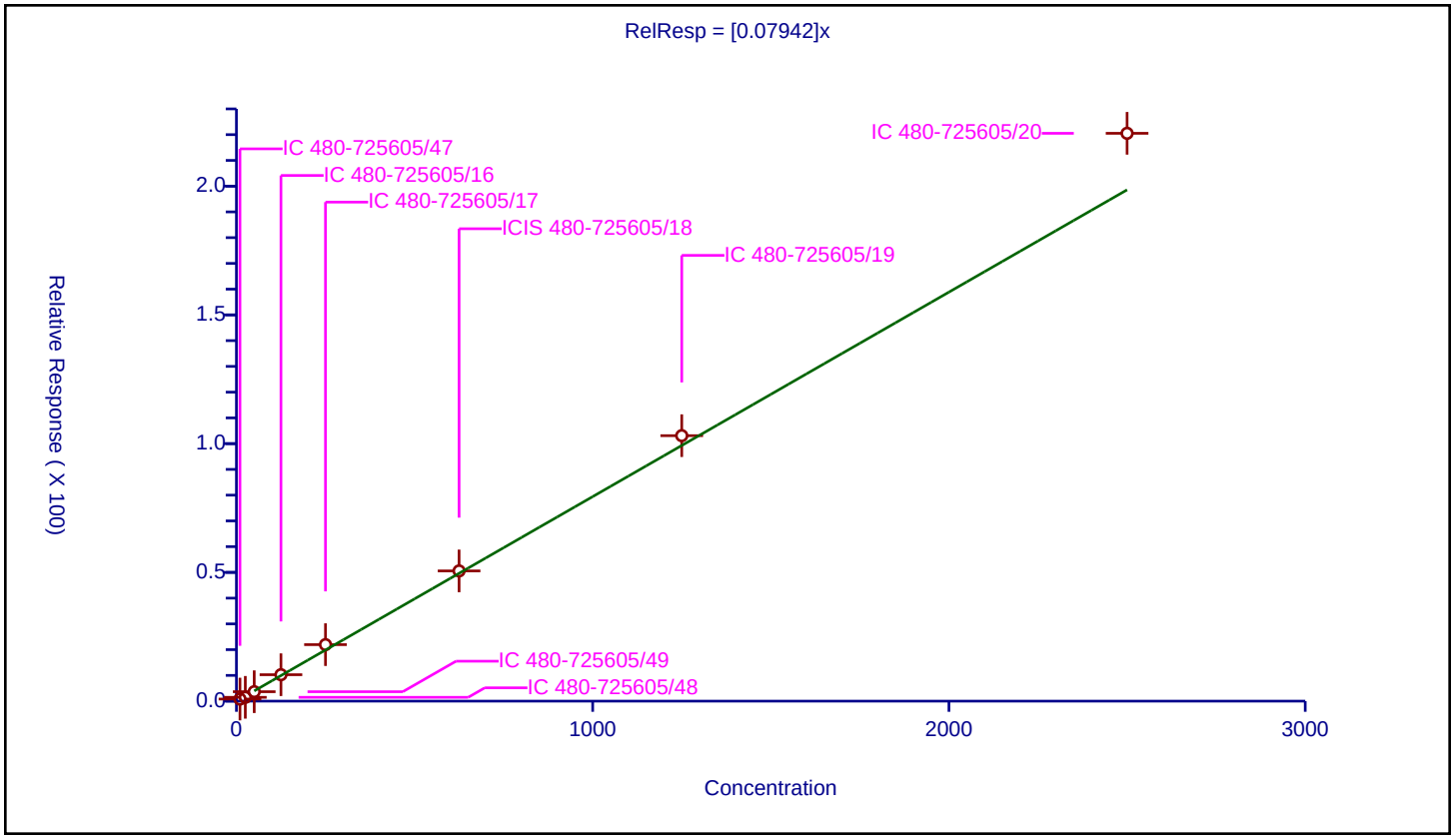
Curve Coefficients

Intercept:	0
Slope:	0.07942

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	10.0	0.811491	25.0	190760.0	0.081149	Y
2	IC 480-725605/48	25.0	1.483392	25.0	189279.0	0.059336	Y
3	IC 480-725605/49	50.0	3.671292	25.0	188401.0	0.073426	Y
4	IC 480-725605/16	125.0	10.266743	25.0	179536.0	0.082134	Y
5	IC 480-725605/17	250.0	21.938636	25.0	175020.0	0.087755	Y
6	ICIS 480-725605/18	625.0	50.572575	25.0	171768.0	0.080916	Y
7	IC 480-725605/19	1250.0	103.096632	25.0	171630.0	0.082477	Y
8	IC 480-725605/20	2500.0	220.517859	25.0	168463.0	0.088207	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

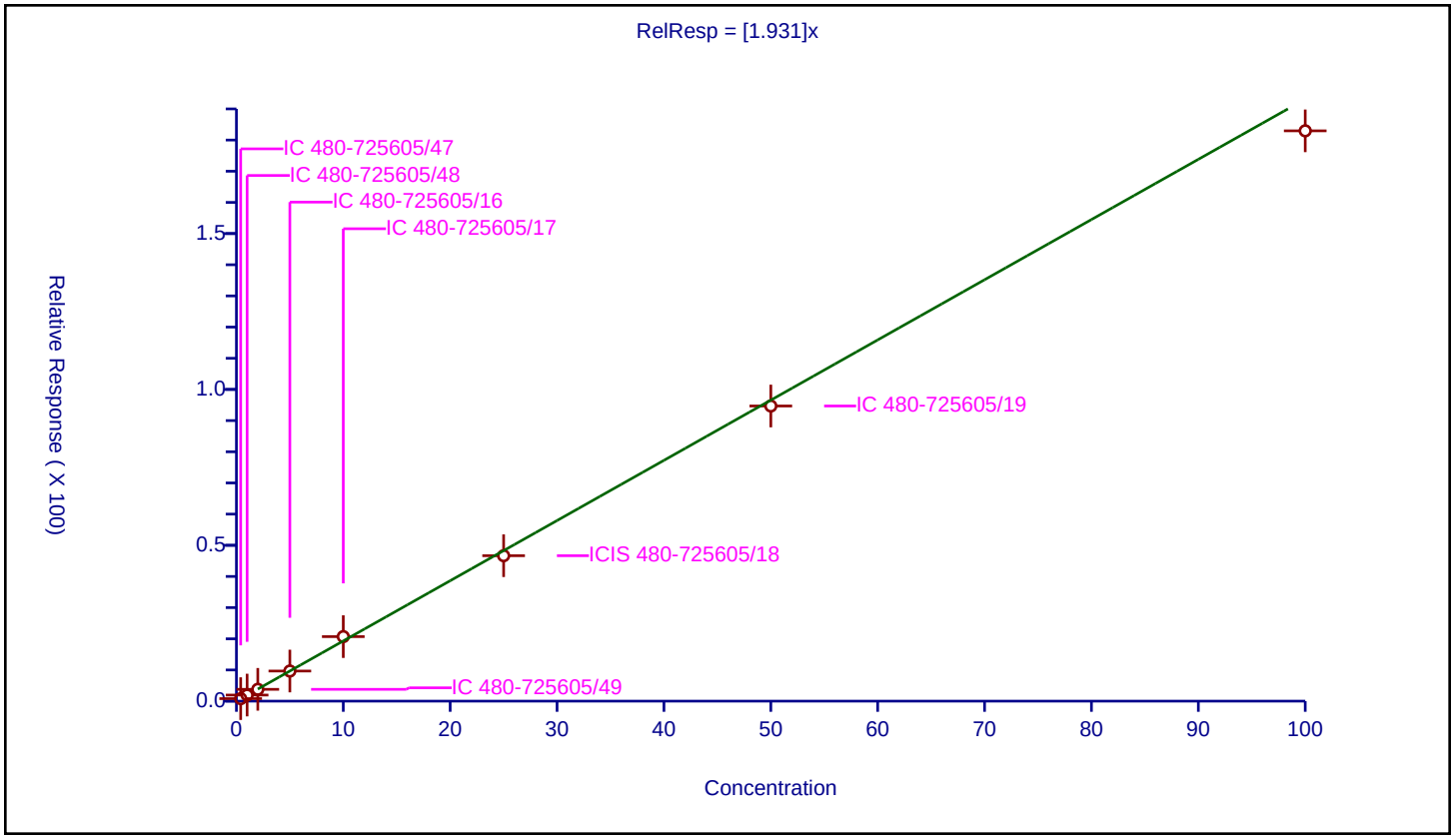
Curve Coefficients

Intercept:	0
Slope:	1.931

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.805987	25.0	190760.0	2.014966	Y
2	IC 480-725605/48	1.0	1.948975	25.0	189279.0	1.948975	Y
3	IC 480-725605/49	2.0	3.787666	25.0	188401.0	1.893833	Y
4	IC 480-725605/16	5.0	9.662965	25.0	179536.0	1.932593	Y
5	IC 480-725605/17	10.0	20.700063	25.0	175020.0	2.070006	Y
6	ICIS 480-725605/18	25.0	46.66134	25.0	171768.0	1.866454	Y
7	IC 480-725605/19	50.0	94.681728	25.0	171630.0	1.893635	Y
8	IC 480-725605/20	100.0	182.960947	25.0	168463.0	1.829609	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

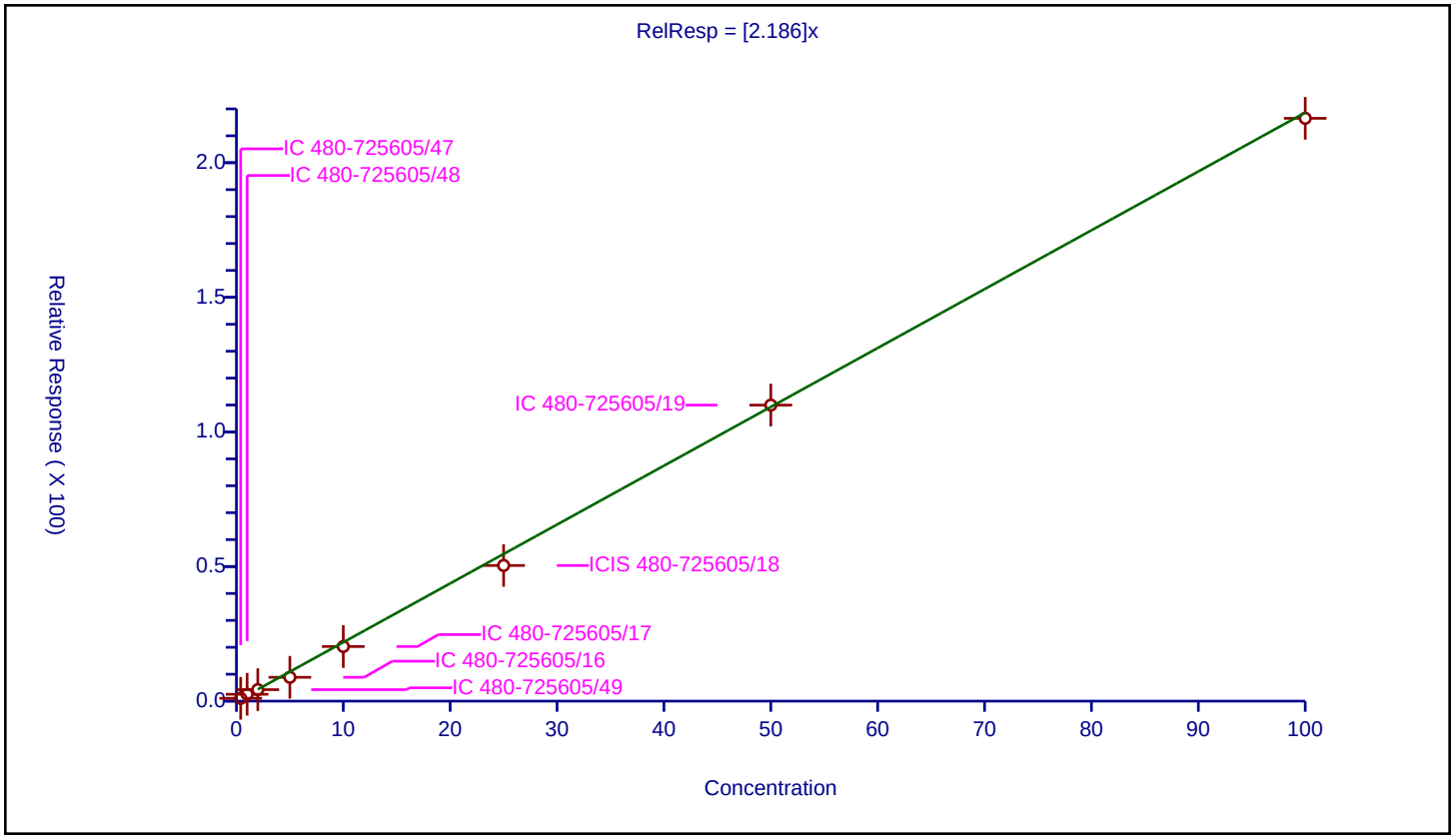
Curve Coefficients

Intercept:	0
Slope:	2.186

Error Coefficients

Relative Standard Deviation:	12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.049748	25.0	190760.0	2.624371	Y
2	IC 480-725605/48	1.0	2.550732	25.0	189279.0	2.550732	Y
3	IC 480-725605/49	2.0	4.269749	25.0	188401.0	2.134875	Y
4	IC 480-725605/16	5.0	8.853795	25.0	179536.0	1.770759	Y
5	IC 480-725605/17	10.0	20.288396	25.0	175020.0	2.02884	Y
6	ICIS 480-725605/18	25.0	50.396319	25.0	171768.0	2.015853	Y
7	IC 480-725605/19	50.0	109.977277	25.0	171630.0	2.199546	Y
8	IC 480-725605/20	100.0	216.502288	25.0	168463.0	2.165023	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

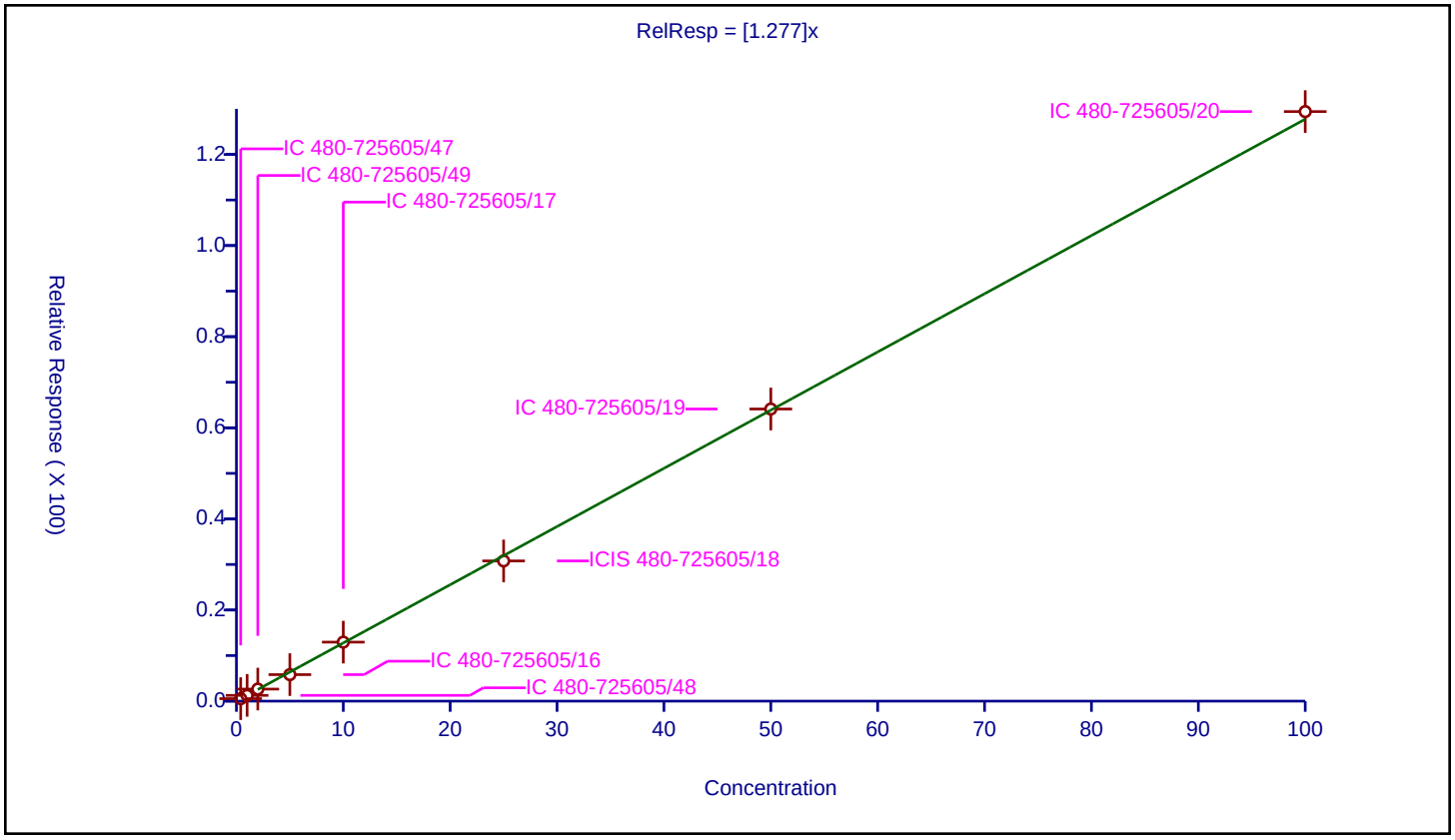
Curve Coefficients

Intercept:	0
Slope:	1.277

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.544663	25.0	190760.0	1.361659	Y
2	IC 480-725605/48	1.0	1.266781	25.0	189279.0	1.266781	Y
3	IC 480-725605/49	2.0	2.64781	25.0	188401.0	1.323905	Y
4	IC 480-725605/16	5.0	5.819724	25.0	179536.0	1.163945	Y
5	IC 480-725605/17	10.0	12.953948	25.0	175020.0	1.295395	Y
6	ICIS 480-725605/18	25.0	30.779744	25.0	171768.0	1.23119	Y
7	IC 480-725605/19	50.0	64.125153	25.0	171630.0	1.282503	Y
8	IC 480-725605/20	100.0	129.4118	25.0	168463.0	1.294118	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

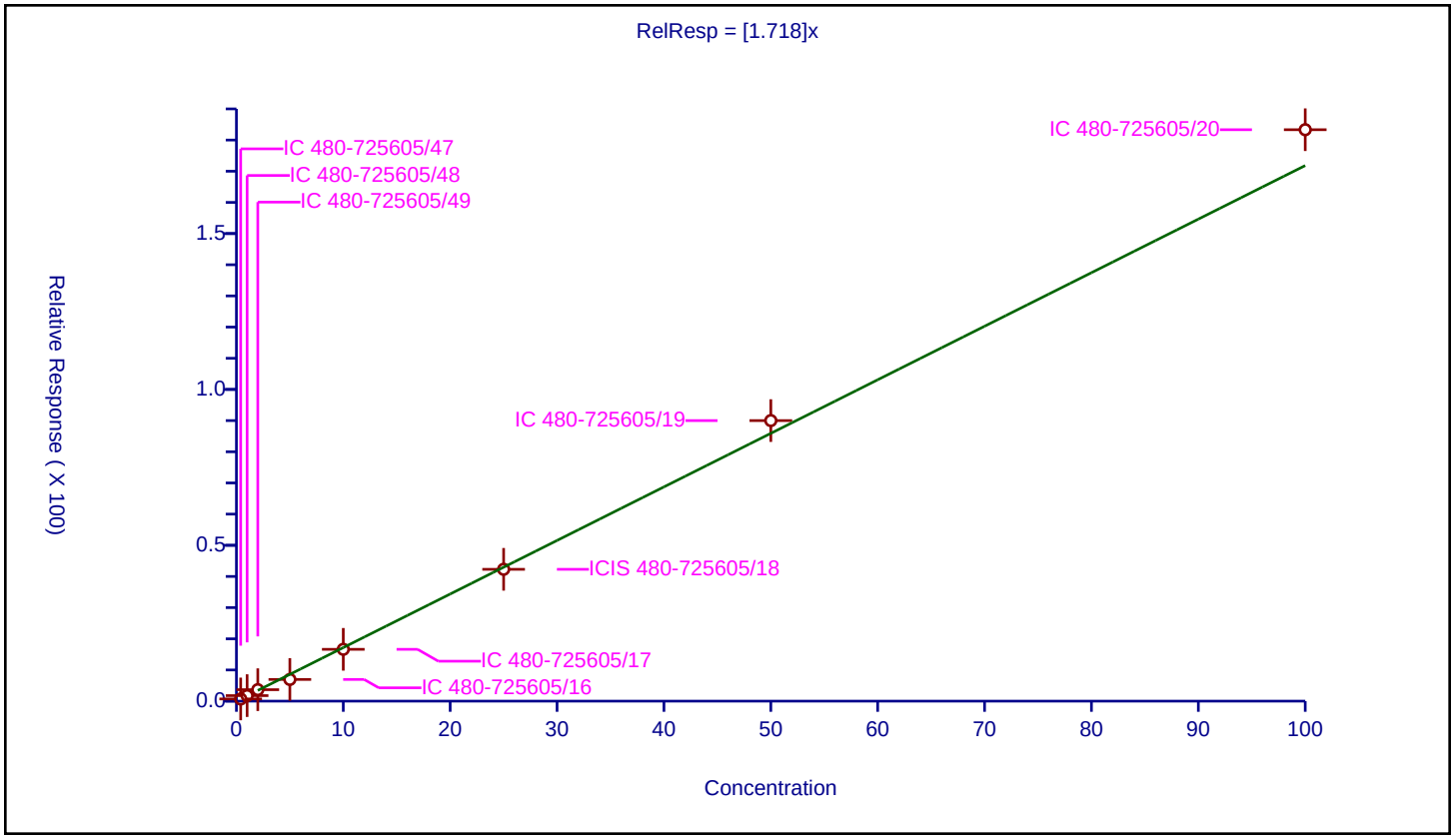
Curve Coefficients

Intercept:	0
Slope:	1.718

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.702191	25.0	190760.0	1.755478	Y
2	IC 480-725605/48	1.0	1.770535	25.0	189279.0	1.770535	Y
3	IC 480-725605/49	2.0	3.679917	25.0	188401.0	1.839958	Y
4	IC 480-725605/16	5.0	6.959189	25.0	179536.0	1.391838	Y
5	IC 480-725605/17	10.0	16.625386	25.0	175020.0	1.662539	Y
6	ICIS 480-725605/18	25.0	42.292656	25.0	171768.0	1.691706	Y
7	IC 480-725605/19	50.0	90.002331	25.0	171630.0	1.800047	Y
8	IC 480-725605/20	100.0	183.320521	25.0	168463.0	1.833205	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

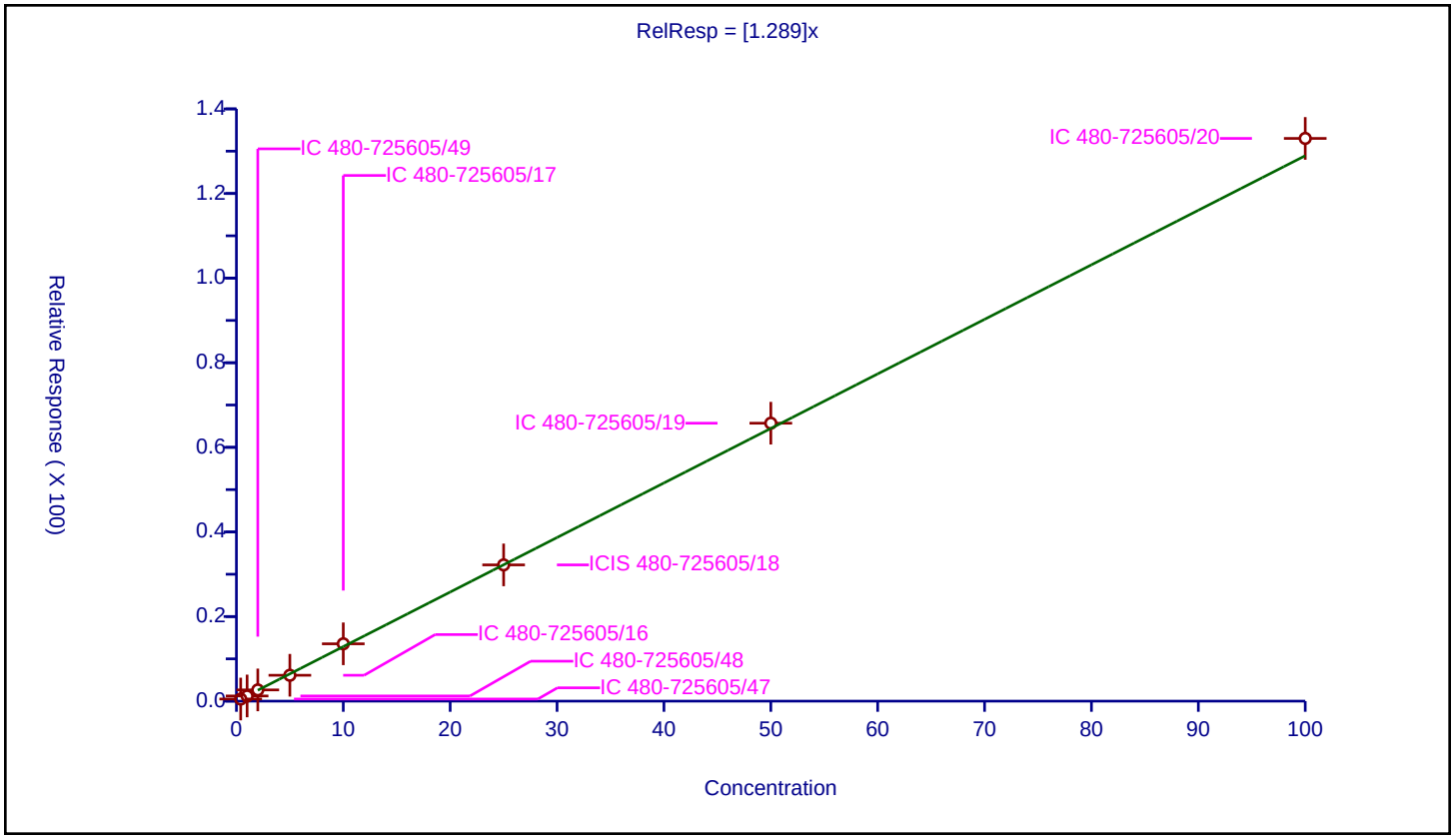
Curve Coefficients

Intercept:	0
Slope:	1.289

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.501153	25.0	190760.0	1.252883	Y
2	IC 480-725605/48	1.0	1.225308	25.0	189279.0	1.225308	Y
3	IC 480-725605/49	2.0	2.651127	25.0	188401.0	1.325564	Y
4	IC 480-725605/16	5.0	6.114233	25.0	179536.0	1.222847	Y
5	IC 480-725605/17	10.0	13.552308	25.0	175020.0	1.355231	Y
6	ICIS 480-725605/18	25.0	32.205504	25.0	171768.0	1.28822	Y
7	IC 480-725605/19	50.0	65.699761	25.0	171630.0	1.313995	Y
8	IC 480-725605/20	100.0	133.017042	25.0	168463.0	1.33017	Y



Calibration / 1,4-Dioxane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

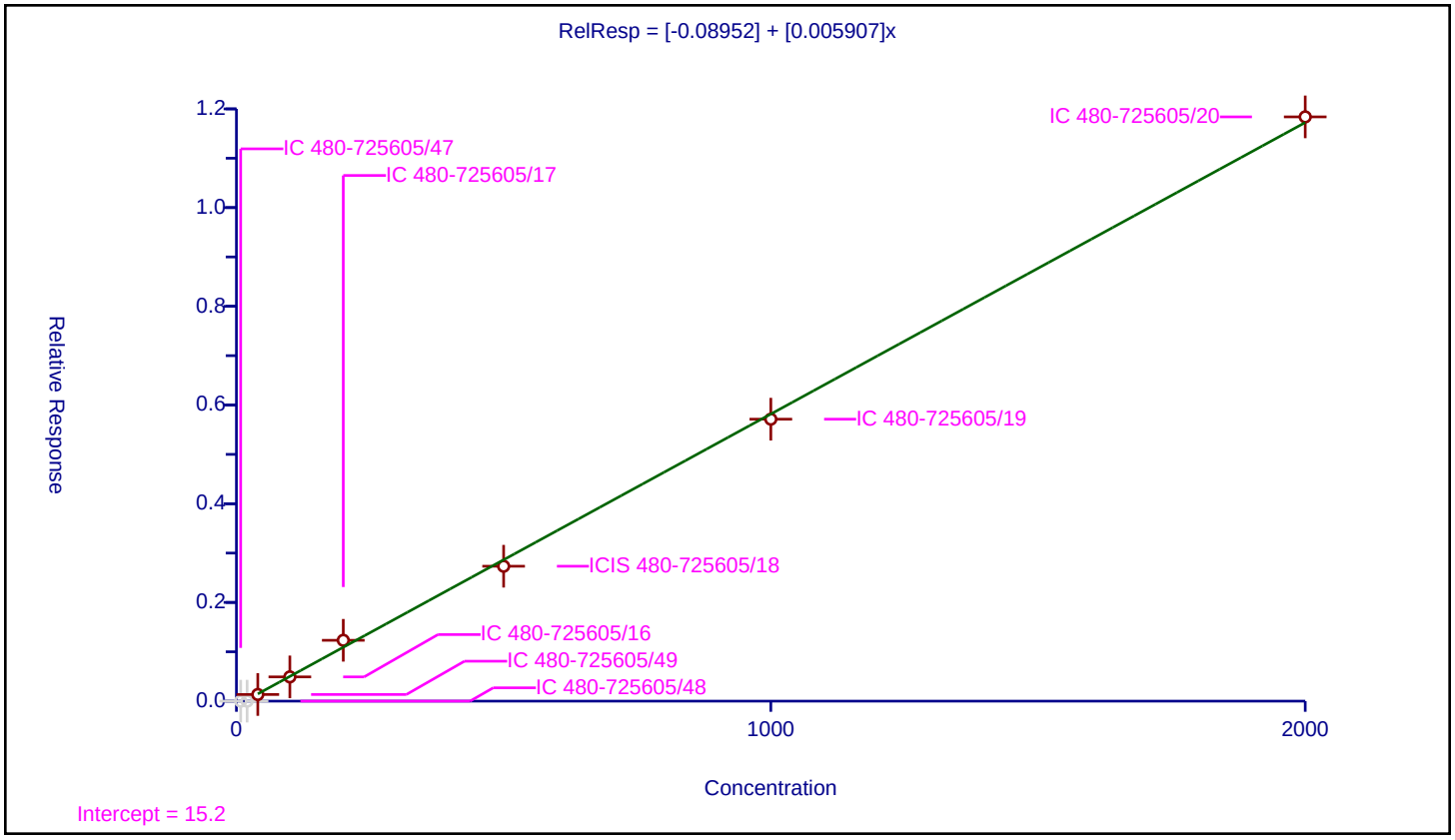
Curve Coefficients

Intercept:	-0.08952
Slope:	0.005907

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	8.0	0.0	25.0	375819.0	0.0	N
2	IC 480-725605/48	20.0	0.0	25.0	371339.0	0.0	N
3	IC 480-725605/49	40.0	0.134583	25.0	366687.0	0.003365	Y
4	IC 480-725605/16	100.0	0.491561	25.0	347617.0	0.004916	Y
5	IC 480-725605/17	200.0	1.23308	25.0	339171.0	0.006165	Y
6	ICIS 480-725605/18	500.0	2.733799	25.0	336464.0	0.005468	Y
7	IC 480-725605/19	1000.0	5.713109	25.0	341666.0	0.005713	Y
8	IC 480-725605/20	2000.0	11.837864	25.0	346247.0	0.005919	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

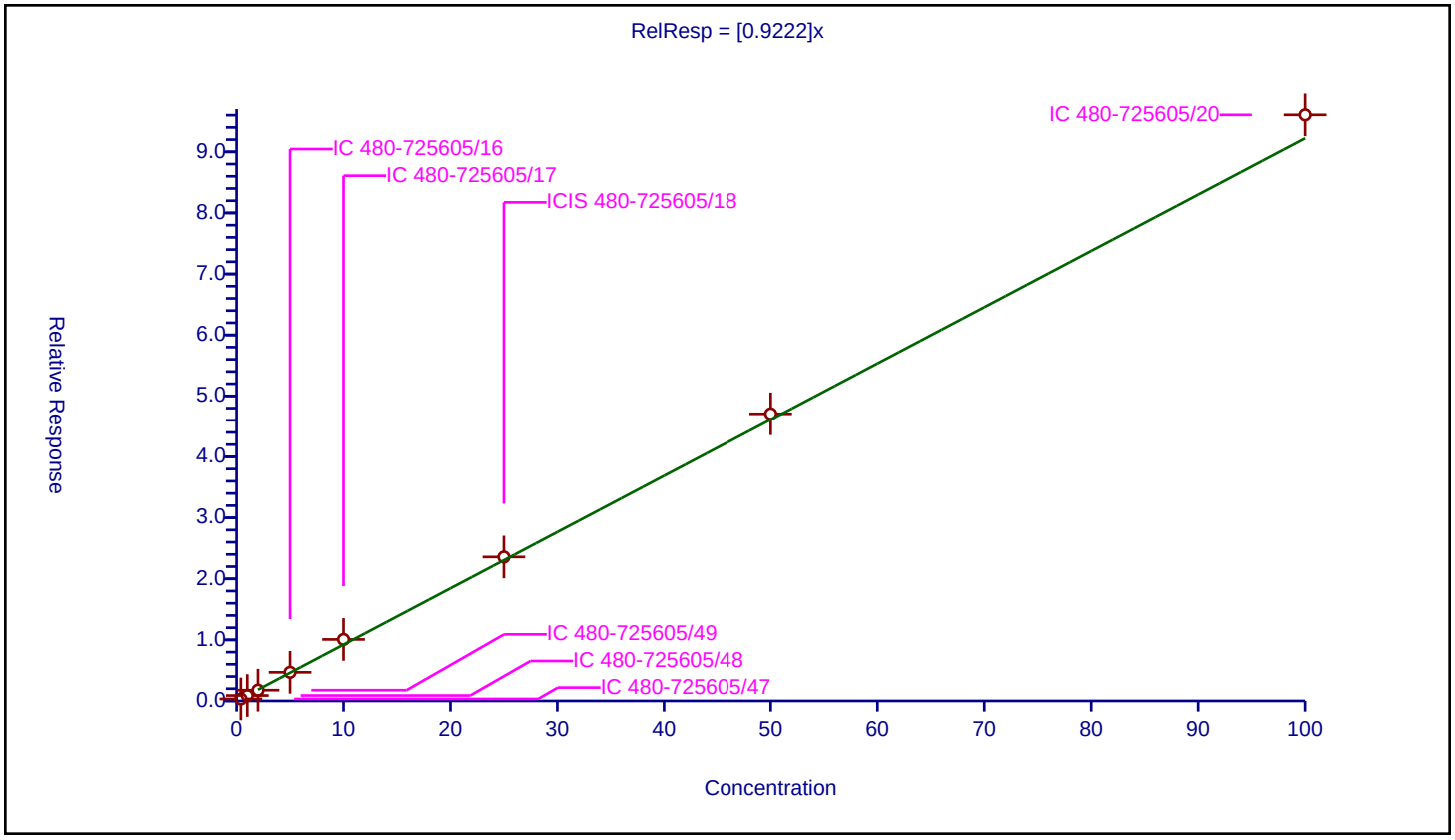
Curve Coefficients

Intercept:	0
Slope:	0.9222

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.32803	25.0	190760.0	0.820075	Y
2	IC 480-725605/48	1.0	0.888239	25.0	189279.0	0.888239	Y
3	IC 480-725605/49	2.0	1.758085	25.0	188401.0	0.879043	Y
4	IC 480-725605/16	5.0	4.688475	25.0	179536.0	0.937695	Y
5	IC 480-725605/17	10.0	10.072706	25.0	175020.0	1.007271	Y
6	ICIS 480-725605/18	25.0	23.581808	25.0	171768.0	0.943272	Y
7	IC 480-725605/19	50.0	47.065344	25.0	171630.0	0.941307	Y
8	IC 480-725605/20	100.0	96.051507	25.0	168463.0	0.960515	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

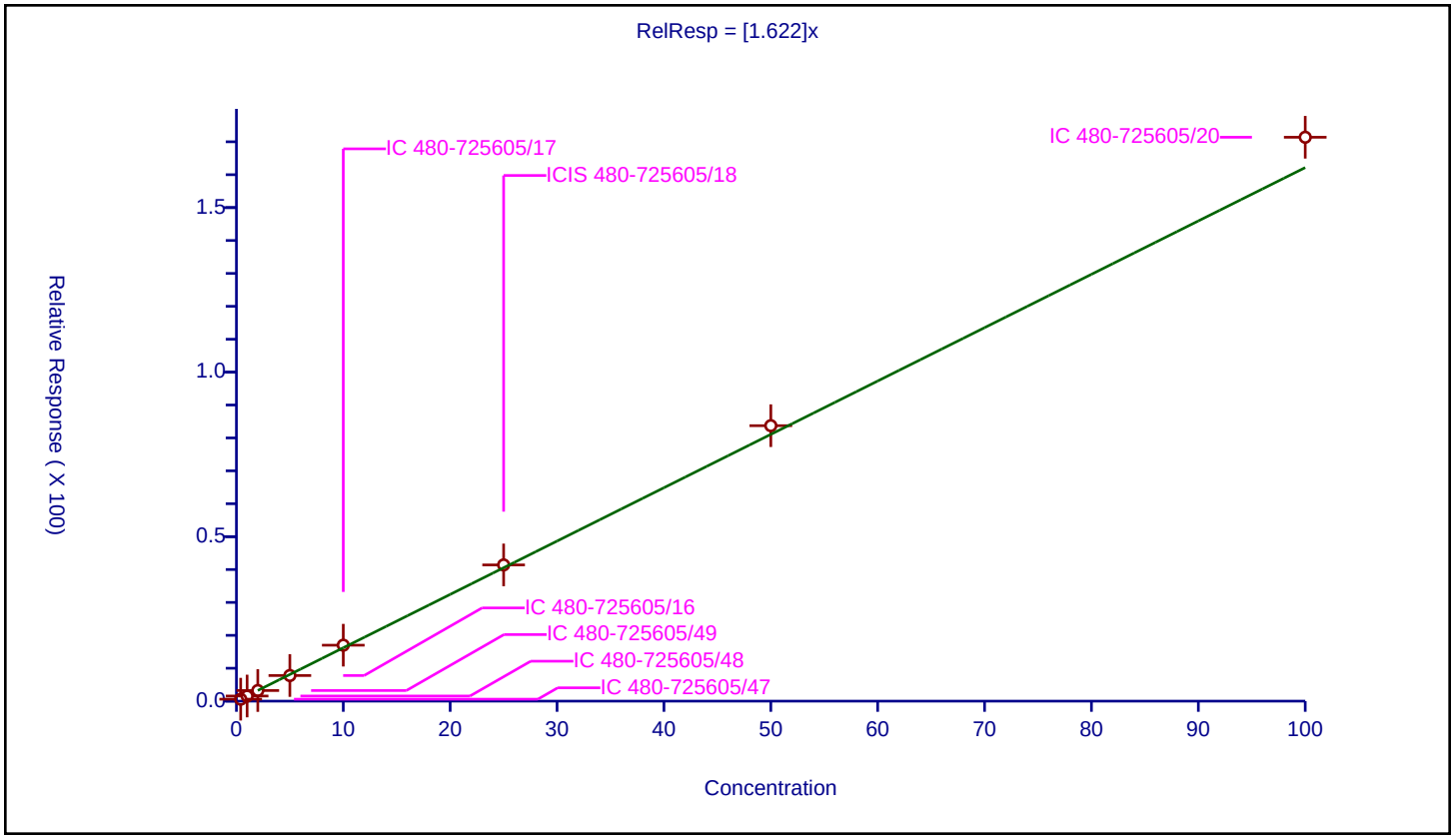
Curve Coefficients

Intercept:	0
Slope:	1.622

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.59892	25.0	190760.0	1.4973	Y
2	IC 480-725605/48	1.0	1.56132	25.0	189279.0	1.56132	Y
3	IC 480-725605/49	2.0	3.225169	25.0	188401.0	1.612584	Y
4	IC 480-725605/16	5.0	7.783536	25.0	179536.0	1.556707	Y
5	IC 480-725605/17	10.0	17.002914	25.0	175020.0	1.700291	Y
6	ICIS 480-725605/18	25.0	41.403084	25.0	171768.0	1.656123	Y
7	IC 480-725605/19	50.0	83.722834	25.0	171630.0	1.674457	Y
8	IC 480-725605/20	100.0	171.379324	25.0	168463.0	1.713793	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

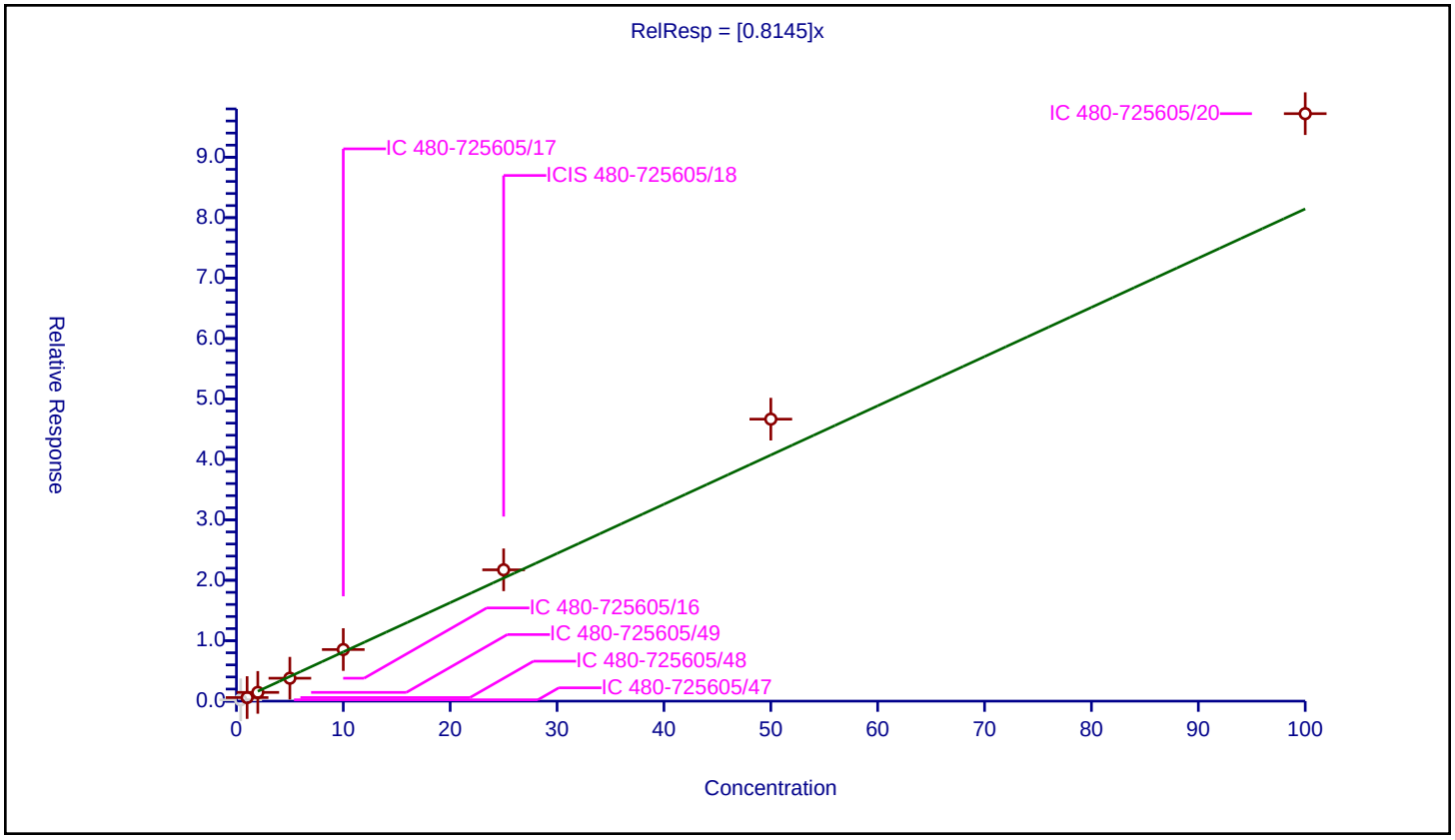
Curve Coefficients

Intercept:	0
Slope:	0.8145

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.221482	25.0	190760.0	0.553706	N
2	IC 480-725605/48	1.0	0.591587	25.0	189279.0	0.591587	Y
3	IC 480-725605/49	2.0	1.44572	25.0	188401.0	0.72286	Y
4	IC 480-725605/16	5.0	3.79325	25.0	179536.0	0.75865	Y
5	IC 480-725605/17	10.0	8.537881	25.0	175020.0	0.853788	Y
6	ICIS 480-725605/18	25.0	21.7296	25.0	171768.0	0.869184	Y
7	IC 480-725605/19	50.0	46.662005	25.0	171630.0	0.93324	Y
8	IC 480-725605/20	100.0	97.212296	25.0	168463.0	0.972123	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

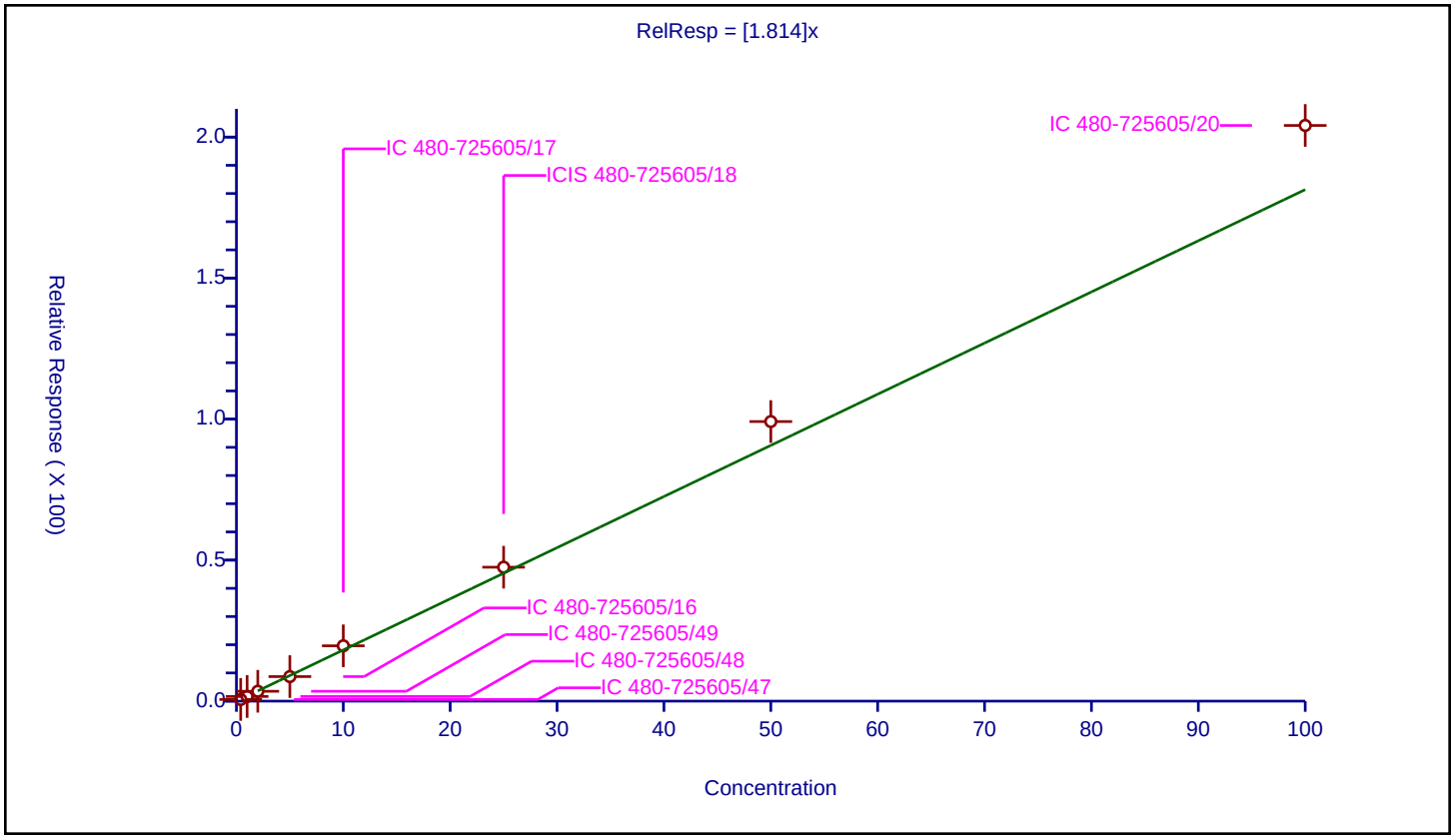
Curve Coefficients

Intercept:	0
Slope:	1.814

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.59394	25.0	190760.0	1.48485	Y
2	IC 480-725605/48	1.0	1.648492	25.0	189279.0	1.648492	Y
3	IC 480-725605/49	2.0	3.50091	25.0	188401.0	1.750455	Y
4	IC 480-725605/16	5.0	8.705079	25.0	179536.0	1.741016	Y
5	IC 480-725605/17	10.0	19.615615	25.0	175020.0	1.961562	Y
6	ICIS 480-725605/18	25.0	47.485271	25.0	171768.0	1.899411	Y
7	IC 480-725605/19	50.0	99.140156	25.0	171630.0	1.982803	Y
8	IC 480-725605/20	100.0	204.129245	25.0	168463.0	2.041292	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

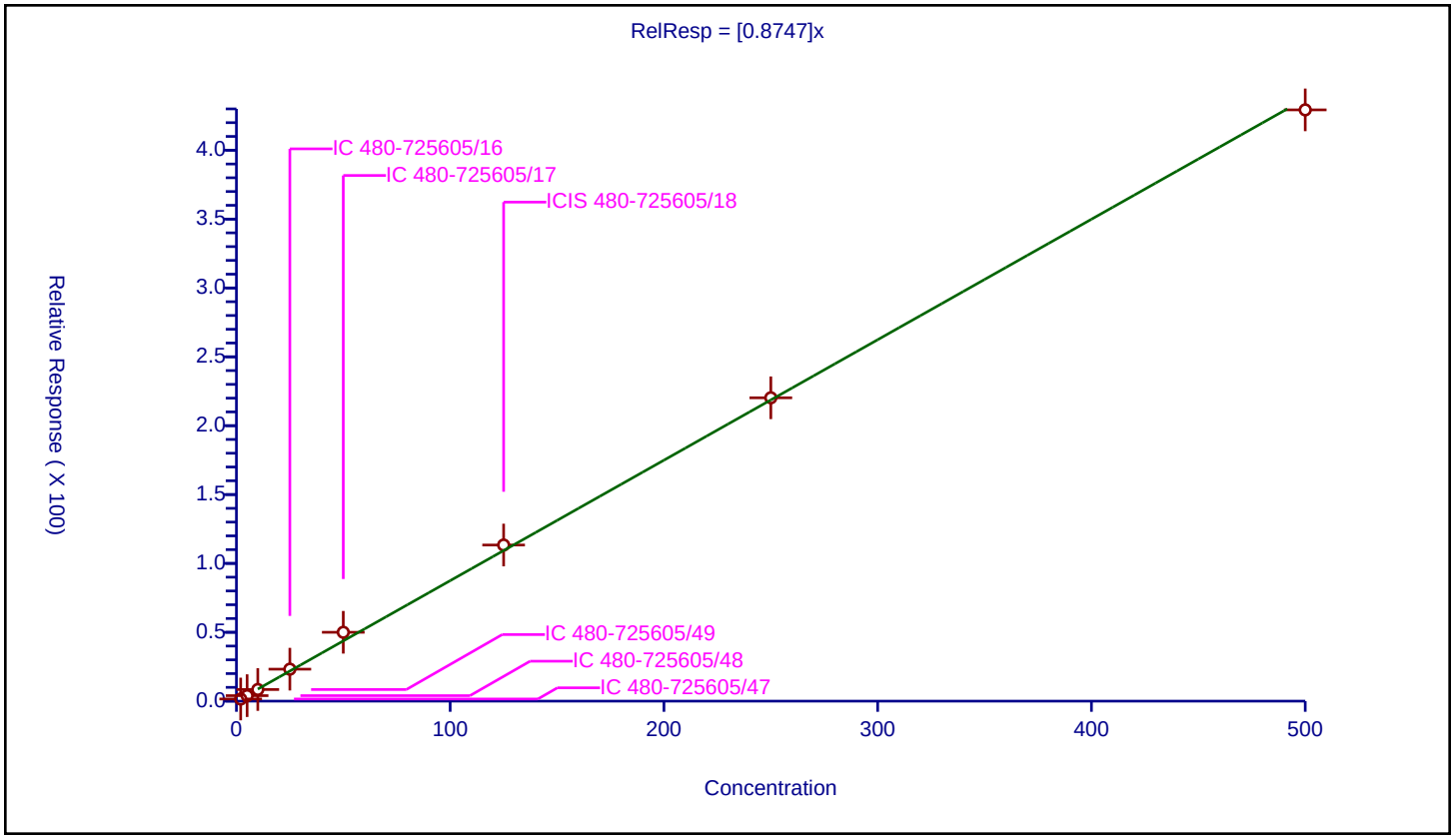
Curve Coefficients

Intercept:	0
Slope:	0.8747

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	2.0	1.559527	25.0	375819.0	0.779764	Y
2	IC 480-725605/48	5.0	3.992578	25.0	371339.0	0.798516	Y
3	IC 480-725605/49	10.0	8.442009	25.0	366687.0	0.844201	Y
4	IC 480-725605/16	25.0	23.218442	25.0	347617.0	0.928738	Y
5	IC 480-725605/17	50.0	49.993661	25.0	339171.0	0.999873	Y
6	ICIS 480-725605/18	125.0	113.355366	25.0	336464.0	0.906843	Y
7	IC 480-725605/19	250.0	220.254576	25.0	341666.0	0.881018	Y
8	IC 480-725605/20	500.0	429.275127	25.0	346247.0	0.85855	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

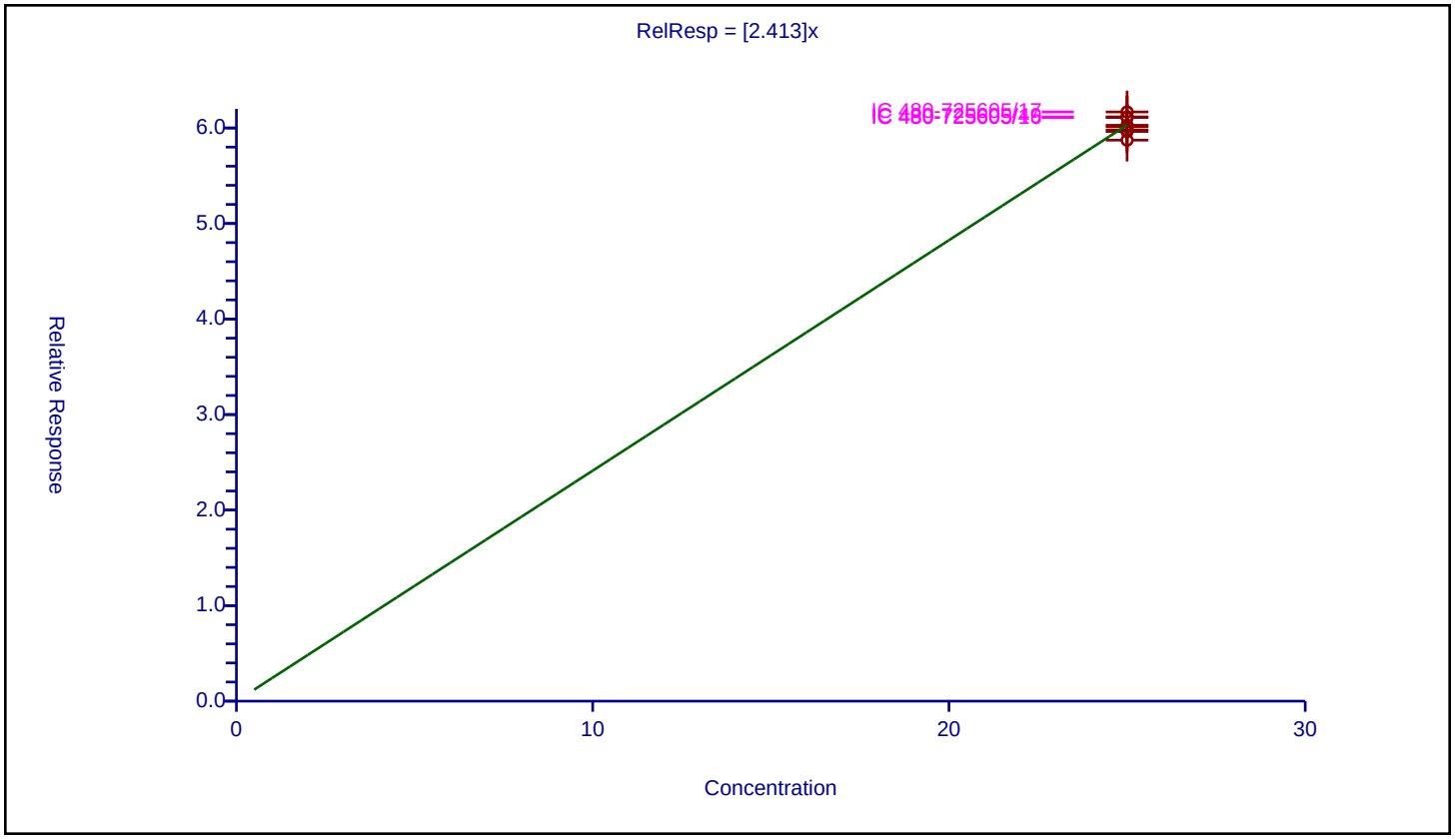
Curve Coefficients

Intercept:	0
Slope:	2.413

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/16	25.0	61.093891	25.0	347617.0	2.443756	Y
2	IC 480-725605/17	25.0	61.678401	25.0	339171.0	2.467136	Y
3	ICIS 480-725605/18	25.0	60.143284	25.0	336464.0	2.405731	Y
4	IC 480-725605/19	25.0	60.285923	25.0	341666.0	2.411437	Y
5	IC 480-725605/20	25.0	58.727007	25.0	346247.0	2.34908	Y
6	IC 480-725605/47	25.0	59.633427	25.0	375819.0	2.385337	Y
7	IC 480-725605/48	25.0	59.791727	25.0	371339.0	2.391669	Y
8	IC 480-725605/49	25.0	61.163063	25.0	366687.0	2.446523	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

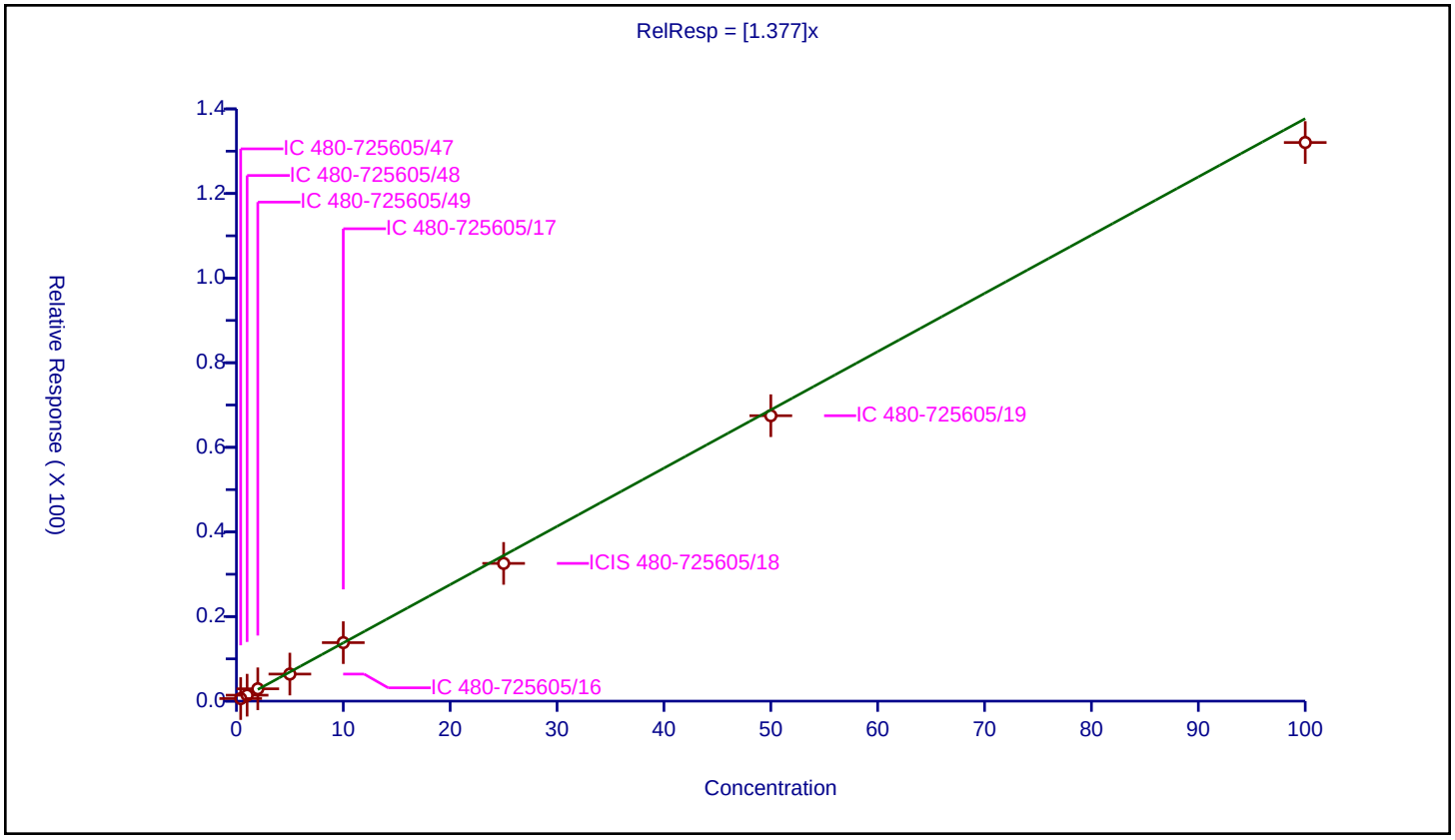
Curve Coefficients

Intercept:	0
Slope:	1.377

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.605943	25.0	375819.0	1.514858	Y
2	IC 480-725605/48	1.0	1.408013	25.0	371339.0	1.408013	Y
3	IC 480-725605/49	2.0	2.91577	25.0	366687.0	1.457885	Y
4	IC 480-725605/16	5.0	6.400075	25.0	347617.0	1.280015	Y
5	IC 480-725605/17	10.0	13.832108	25.0	339171.0	1.383211	Y
6	ICIS 480-725605/18	25.0	32.55638	25.0	336464.0	1.302255	Y
7	IC 480-725605/19	50.0	67.473717	25.0	341666.0	1.349474	Y
8	IC 480-725605/20	100.0	132.053635	25.0	346247.0	1.320536	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

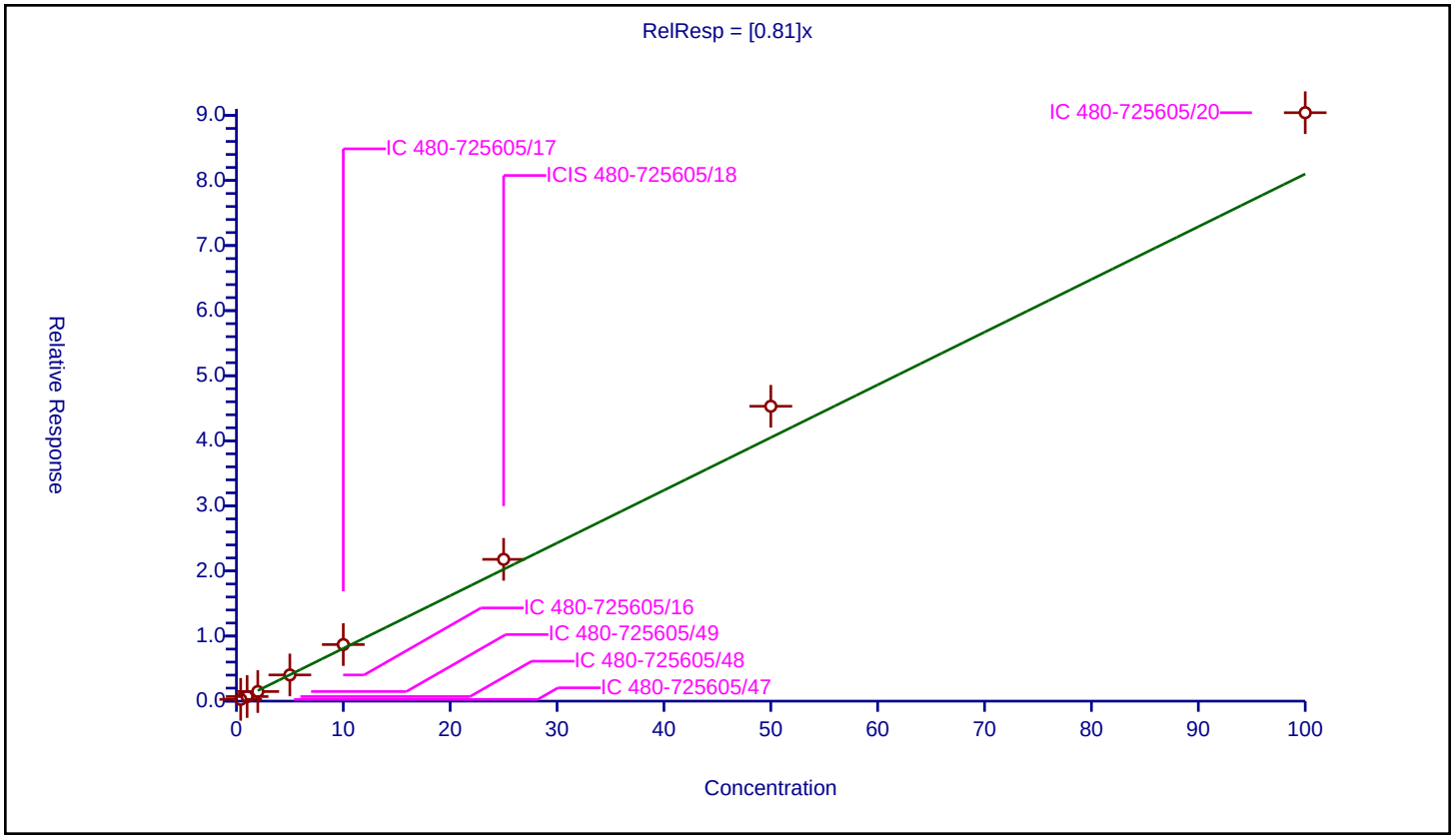
Curve Coefficients

Intercept:	0
Slope:	0.81

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.271806	25.0	375819.0	0.679516	Y
2	IC 480-725605/48	1.0	0.706093	25.0	371339.0	0.706093	Y
3	IC 480-725605/49	2.0	1.4766	25.0	366687.0	0.7383	Y
4	IC 480-725605/16	5.0	4.025192	25.0	347617.0	0.805038	Y
5	IC 480-725605/17	10.0	8.693402	25.0	339171.0	0.86934	Y
6	ICIS 480-725605/18	25.0	21.786135	25.0	336464.0	0.871445	Y
7	IC 480-725605/19	50.0	45.30704	25.0	341666.0	0.906141	Y
8	IC 480-725605/20	100.0	90.415801	25.0	346247.0	0.904158	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

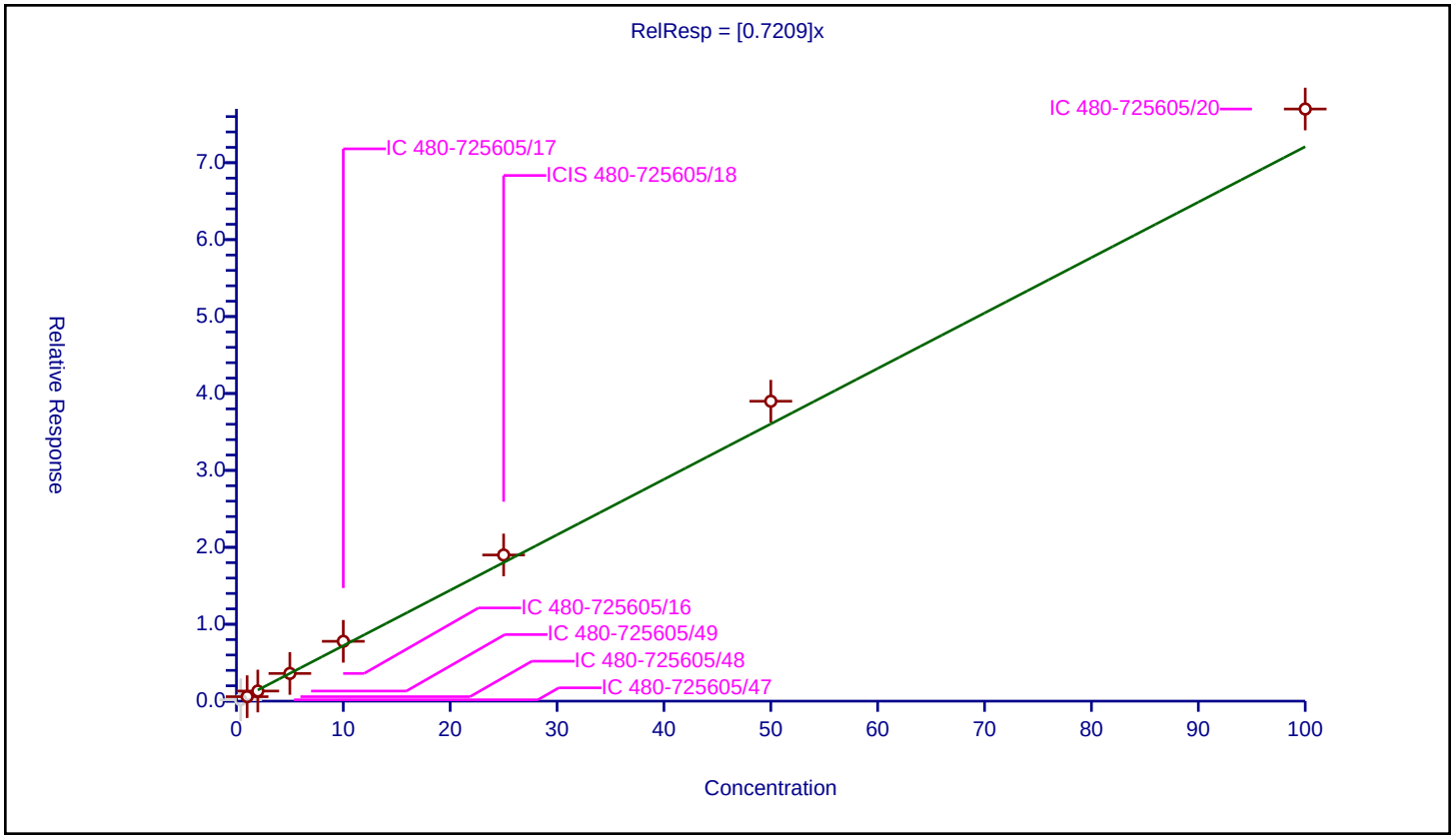
Curve Coefficients

Intercept:	0
Slope:	0.7209

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.173887	25.0	375819.0	0.434717	N
2	IC 480-725605/48	1.0	0.581342	25.0	371339.0	0.581342	Y
3	IC 480-725605/49	2.0	1.3142	25.0	366687.0	0.6571	Y
4	IC 480-725605/16	5.0	3.600155	25.0	347617.0	0.720031	Y
5	IC 480-725605/17	10.0	7.777493	25.0	339171.0	0.777749	Y
6	ICIS 480-725605/18	25.0	19.003445	25.0	336464.0	0.760138	Y
7	IC 480-725605/19	50.0	38.992539	25.0	341666.0	0.779851	Y
8	IC 480-725605/20	100.0	76.984133	25.0	346247.0	0.769841	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

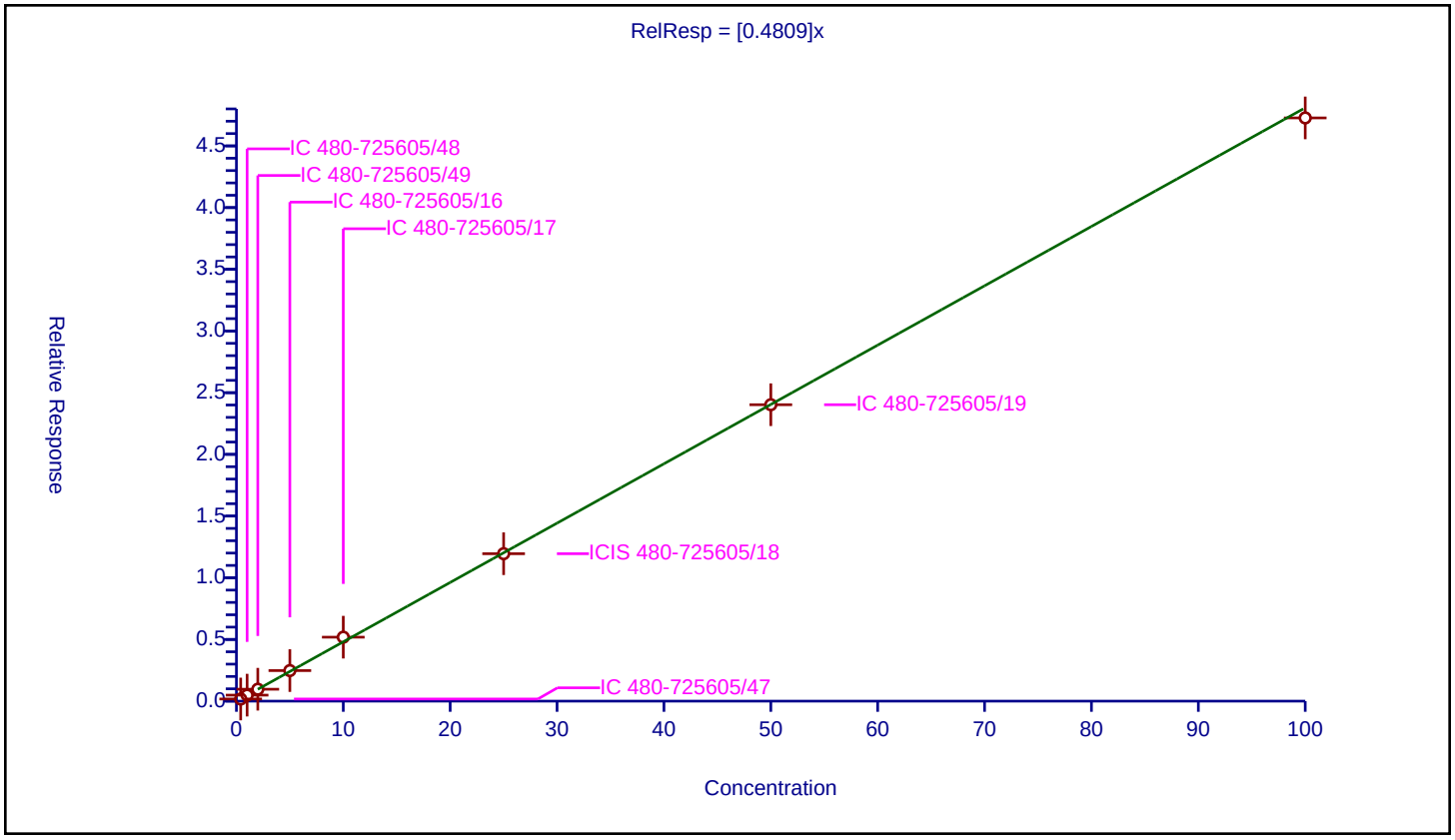
Curve Coefficients

Intercept:	0
Slope:	0.4809

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.17269	25.0	375819.0	0.431724	Y
2	IC 480-725605/48	1.0	0.487425	25.0	371339.0	0.487425	Y
3	IC 480-725605/49	2.0	0.965946	25.0	366687.0	0.482973	Y
4	IC 480-725605/16	5.0	2.478015	25.0	347617.0	0.495603	Y
5	IC 480-725605/17	10.0	5.182858	25.0	339171.0	0.518286	Y
6	ICIS 480-725605/18	25.0	11.949495	25.0	336464.0	0.47798	Y
7	IC 480-725605/19	50.0	24.024998	25.0	341666.0	0.4805	Y
8	IC 480-725605/20	100.0	47.268352	25.0	346247.0	0.472684	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

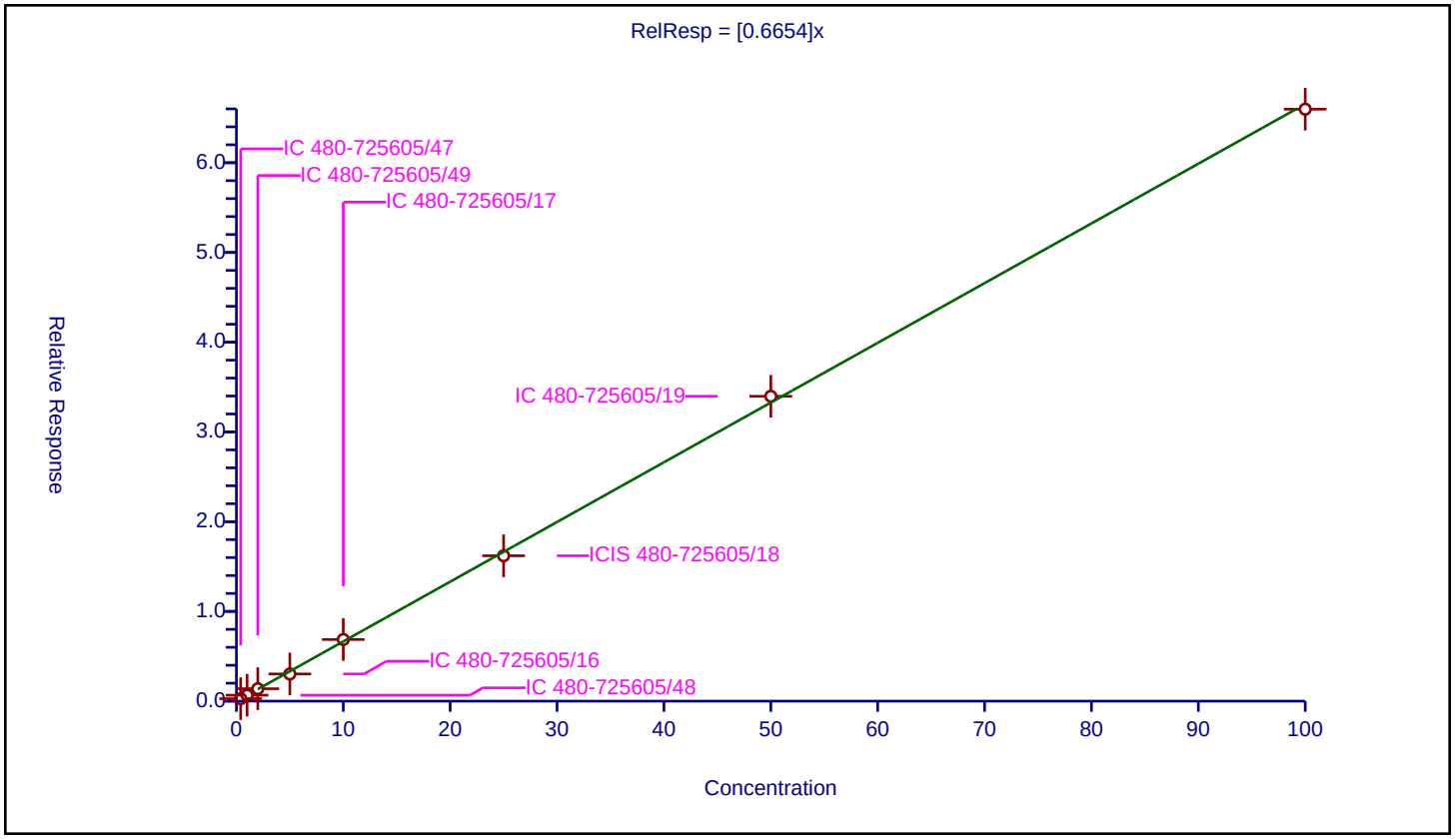
Curve Coefficients

Intercept:	0
Slope:	0.6654

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.274866	25.0	375819.0	0.687166	Y
2	IC 480-725605/48	1.0	0.664151	25.0	371339.0	0.664151	Y
3	IC 480-725605/49	2.0	1.384696	25.0	366687.0	0.692348	Y
4	IC 480-725605/16	5.0	3.028621	25.0	347617.0	0.605724	Y
5	IC 480-725605/17	10.0	6.869396	25.0	339171.0	0.68694	Y
6	ICIS 480-725605/18	25.0	16.201585	25.0	336464.0	0.648063	Y
7	IC 480-725605/19	50.0	33.973969	25.0	341666.0	0.679479	Y
8	IC 480-725605/20	100.0	65.964759	25.0	346247.0	0.659648	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

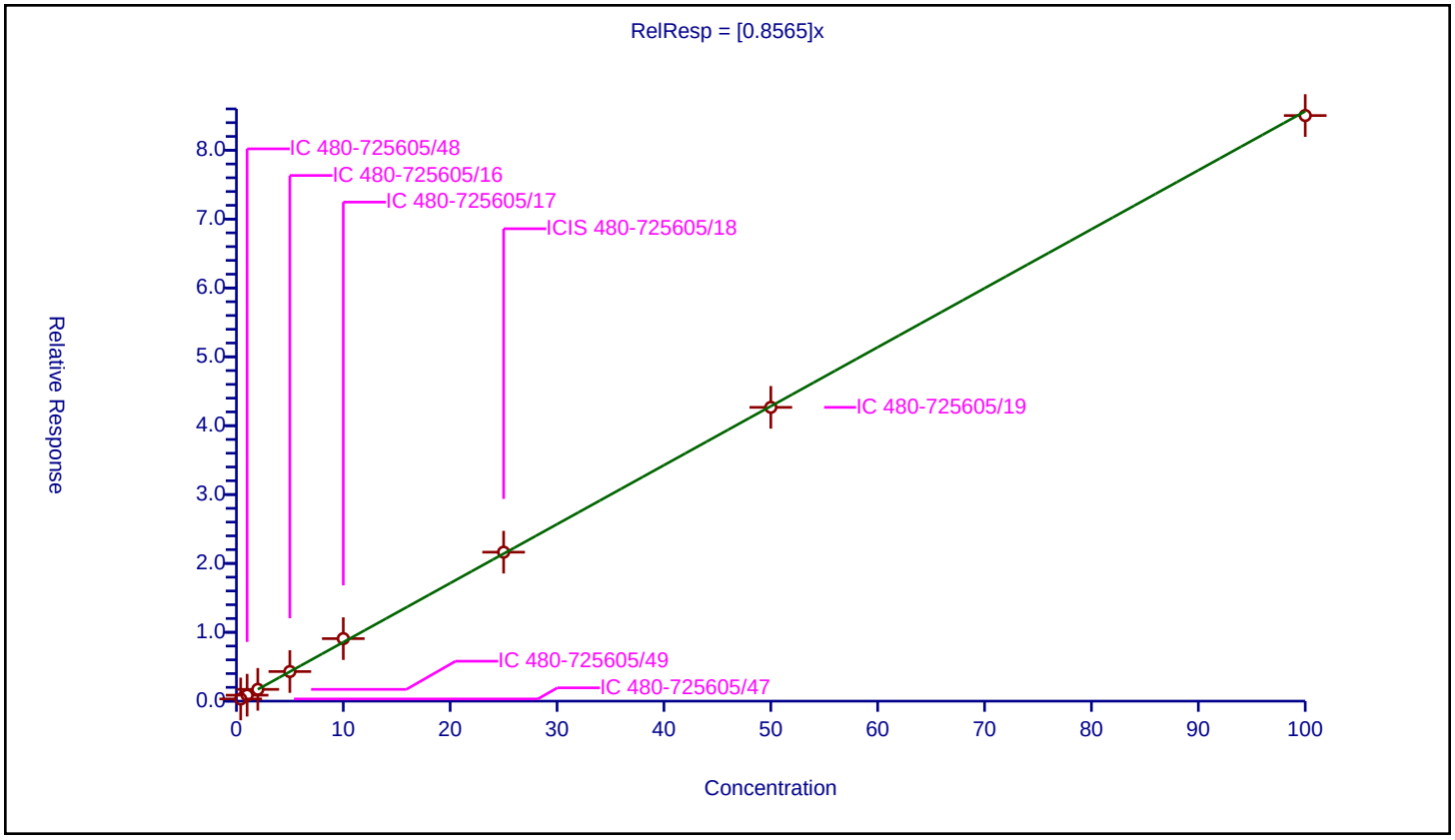
Curve Coefficients

Intercept:	0
Slope:	0.8565

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.317706	25.0	375819.0	0.794265	Y
2	IC 480-725605/48	1.0	0.864439	25.0	371339.0	0.864439	Y
3	IC 480-725605/49	2.0	1.712837	25.0	366687.0	0.856418	Y
4	IC 480-725605/16	5.0	4.299991	25.0	347617.0	0.859998	Y
5	IC 480-725605/17	10.0	9.079491	25.0	339171.0	0.907949	Y
6	ICIS 480-725605/18	25.0	21.633072	25.0	336464.0	0.865323	Y
7	IC 480-725605/19	50.0	42.662205	25.0	341666.0	0.853244	Y
8	IC 480-725605/20	100.0	85.034672	25.0	346247.0	0.850347	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

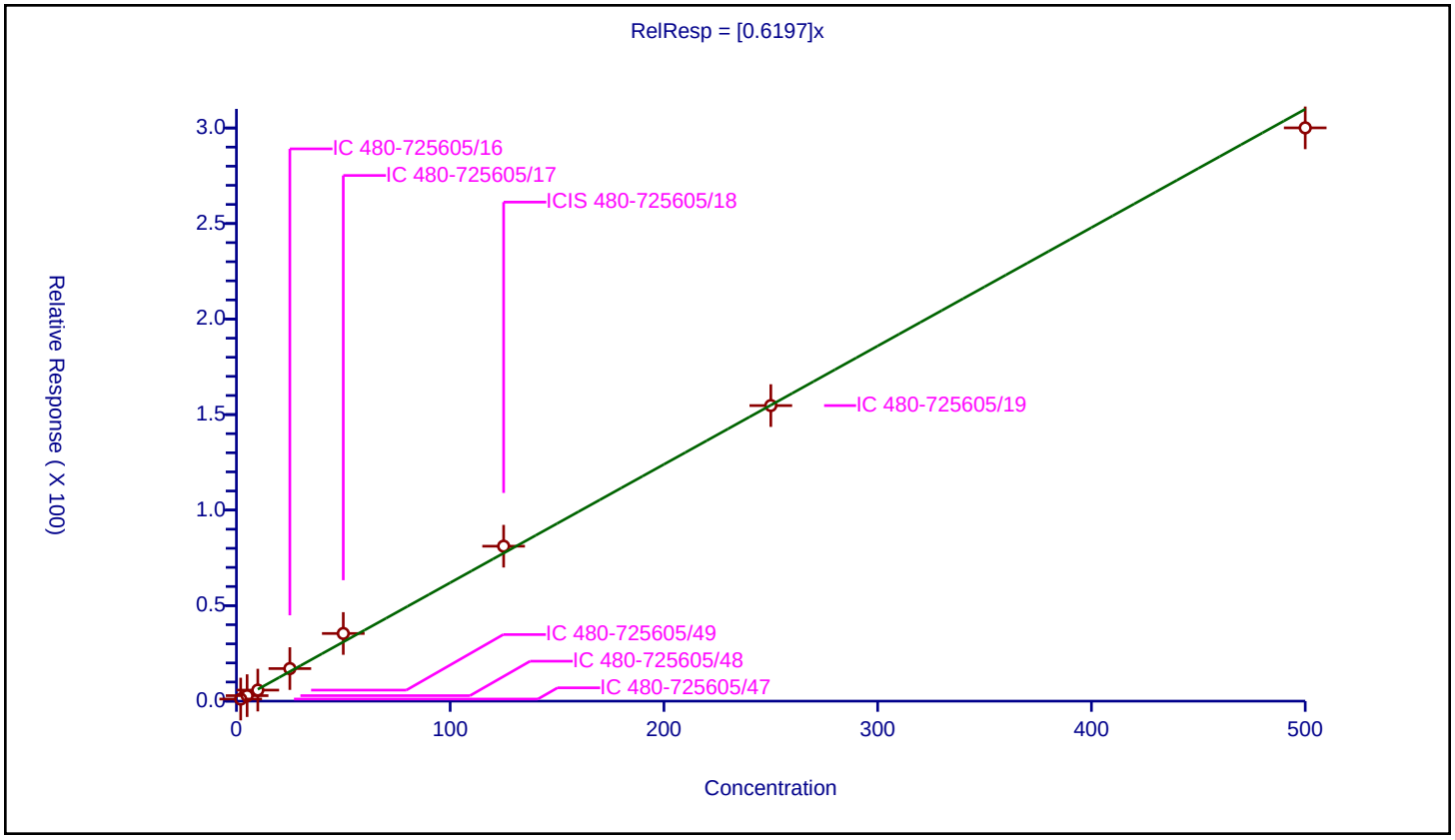
Curve Coefficients

Intercept:	0
Slope:	0.6197

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	2.0	1.090552	25.0	375819.0	0.545276	Y
2	IC 480-725605/48	5.0	2.883349	25.0	371339.0	0.57667	Y
3	IC 480-725605/49	10.0	5.777066	25.0	366687.0	0.577707	Y
4	IC 480-725605/16	25.0	17.044549	25.0	347617.0	0.681782	Y
5	IC 480-725605/17	50.0	35.4151	25.0	339171.0	0.708302	Y
6	ICIS 480-725605/18	125.0	81.104293	25.0	336464.0	0.648834	Y
7	IC 480-725605/19	250.0	154.713082	25.0	341666.0	0.618852	Y
8	IC 480-725605/20	500.0	300.074297	25.0	346247.0	0.600149	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

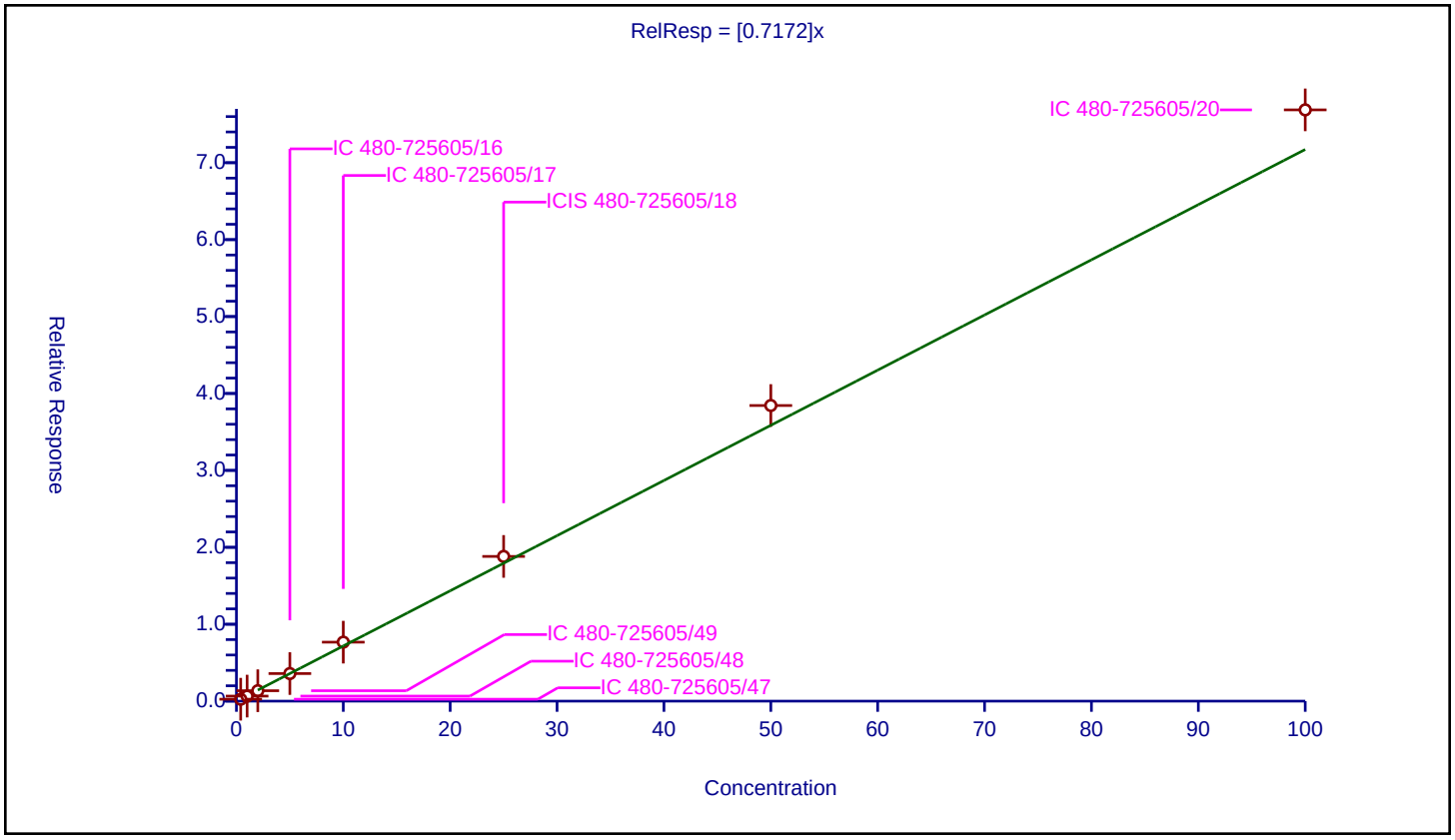
Curve Coefficients

Intercept:	0
Slope:	0.7172

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.251916	25.0	375819.0	0.629791	Y
2	IC 480-725605/48	1.0	0.656139	25.0	371339.0	0.656139	Y
3	IC 480-725605/49	2.0	1.354902	25.0	366687.0	0.677451	Y
4	IC 480-725605/16	5.0	3.587066	25.0	347617.0	0.717413	Y
5	IC 480-725605/17	10.0	7.669656	25.0	339171.0	0.766966	Y
6	ICIS 480-725605/18	25.0	18.814569	25.0	336464.0	0.752583	Y
7	IC 480-725605/19	50.0	38.435563	25.0	341666.0	0.768711	Y
8	IC 480-725605/20	100.0	76.872074	25.0	346247.0	0.768721	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

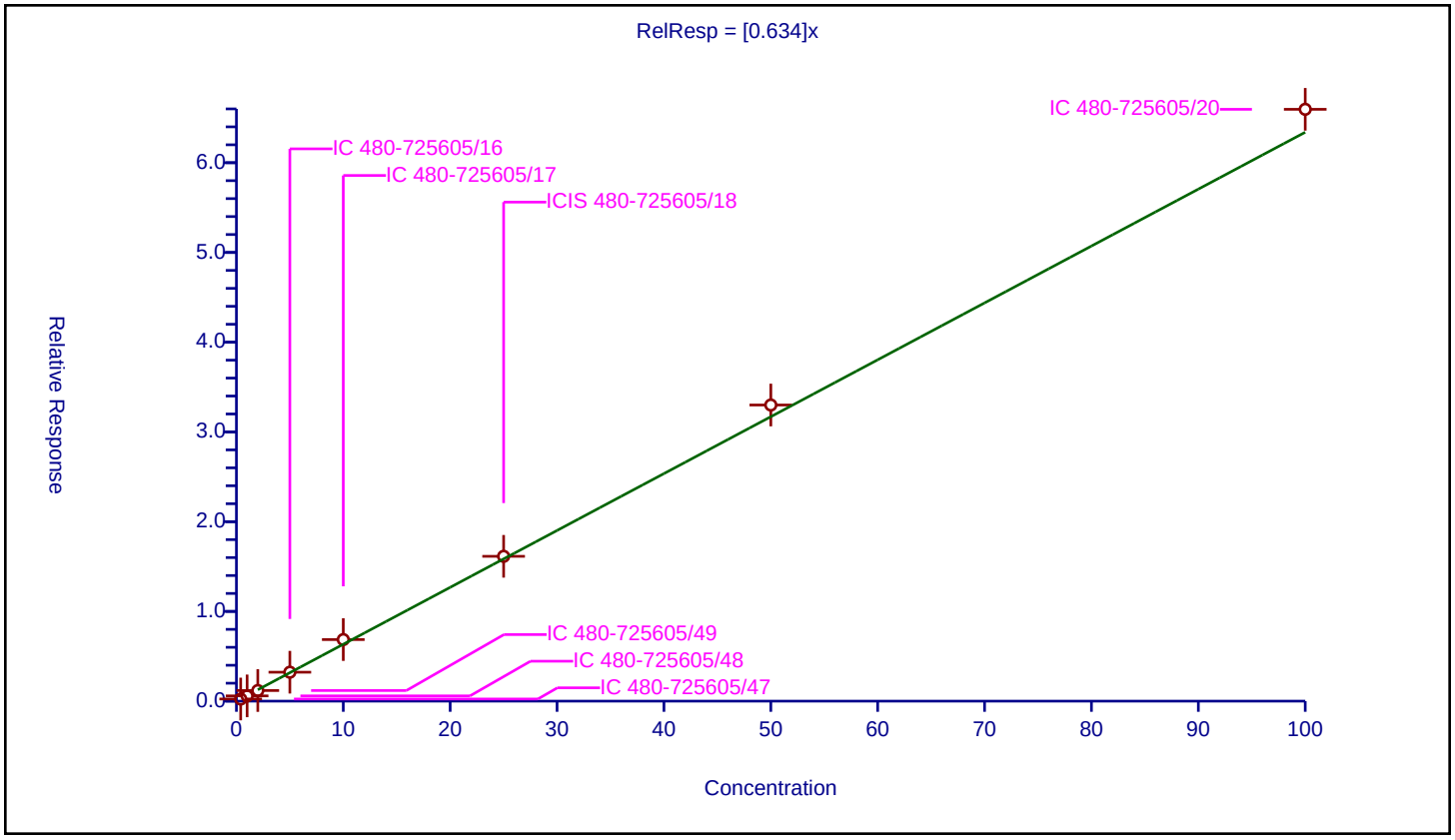
Curve Coefficients

Intercept:	0
Slope:	0.634

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.239344	25.0	375819.0	0.59836	Y
2	IC 480-725605/48	1.0	0.585987	25.0	371339.0	0.585987	Y
3	IC 480-725605/49	2.0	1.182548	25.0	366687.0	0.591274	Y
4	IC 480-725605/16	5.0	3.225461	25.0	347617.0	0.645092	Y
5	IC 480-725605/17	10.0	6.859298	25.0	339171.0	0.68593	Y
6	ICIS 480-725605/18	25.0	16.138502	25.0	336464.0	0.64554	Y
7	IC 480-725605/19	50.0	33.000723	25.0	341666.0	0.660014	Y
8	IC 480-725605/20	100.0	65.953857	25.0	346247.0	0.659539	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

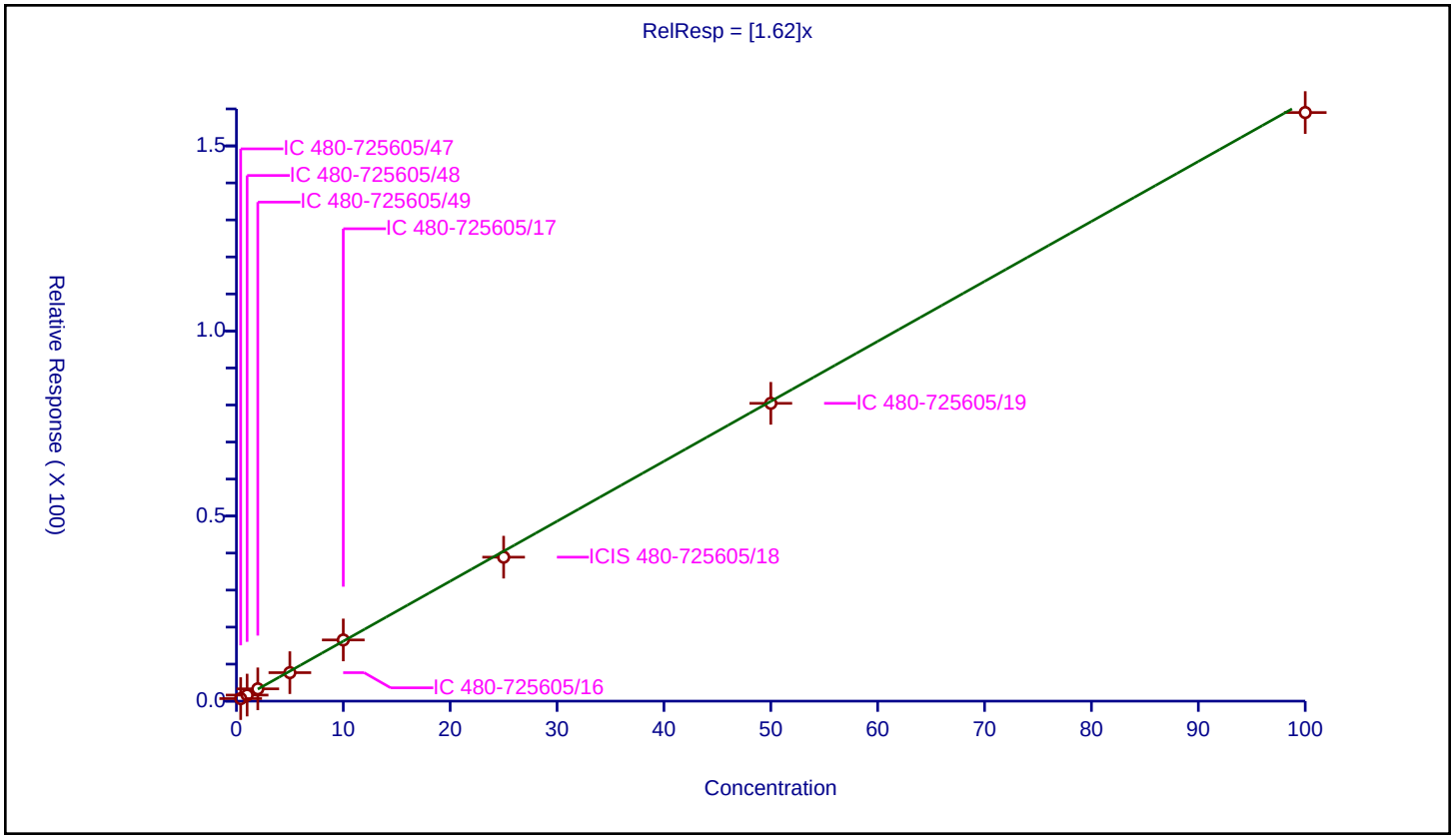
Curve Coefficients

Intercept:	0
Slope:	1.62

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.686235	25.0	375819.0	1.715586	Y
2	IC 480-725605/48	1.0	1.638395	25.0	371339.0	1.638395	Y
3	IC 480-725605/49	2.0	3.317475	25.0	366687.0	1.658738	Y
4	IC 480-725605/16	5.0	7.698847	25.0	347617.0	1.539769	Y
5	IC 480-725605/17	10.0	16.528462	25.0	339171.0	1.652846	Y
6	ICIS 480-725605/18	25.0	38.891234	25.0	336464.0	1.555649	Y
7	IC 480-725605/19	50.0	80.452401	25.0	341666.0	1.609048	Y
8	IC 480-725605/20	100.0	159.011197	25.0	346247.0	1.590112	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

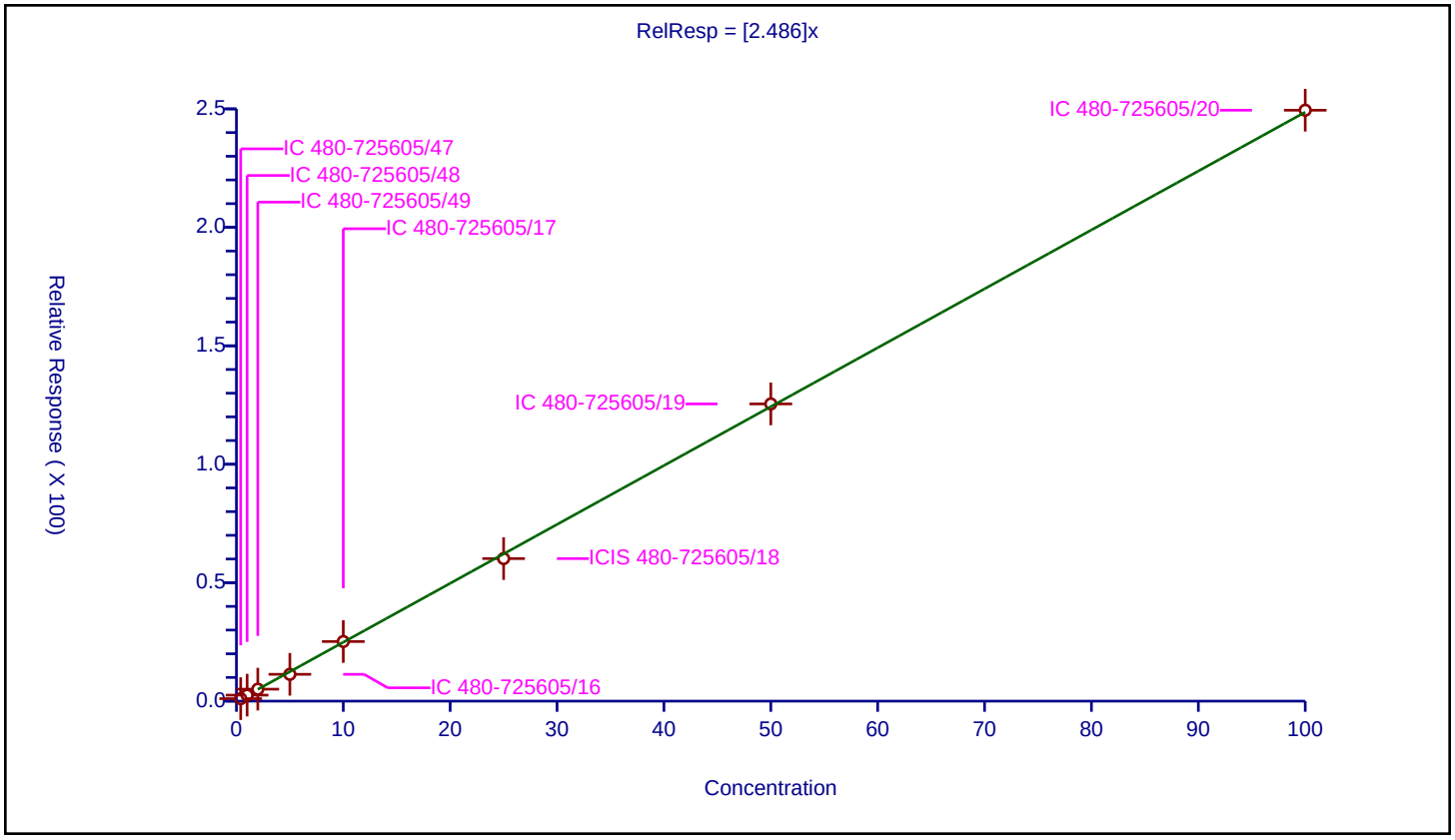
Curve Coefficients

Intercept:	0
Slope:	2.486

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.05137	25.0	375819.0	2.628426	Y
2	IC 480-725605/48	1.0	2.539795	25.0	371339.0	2.539795	Y
3	IC 480-725605/49	2.0	5.057651	25.0	366687.0	2.528826	Y
4	IC 480-725605/16	5.0	11.329567	25.0	347617.0	2.265913	Y
5	IC 480-725605/17	10.0	25.164298	25.0	339171.0	2.51643	Y
6	ICIS 480-725605/18	25.0	60.17568	25.0	336464.0	2.407027	Y
7	IC 480-725605/19	50.0	125.468586	25.0	341666.0	2.509372	Y
8	IC 480-725605/20	100.0	249.439779	25.0	346247.0	2.494398	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

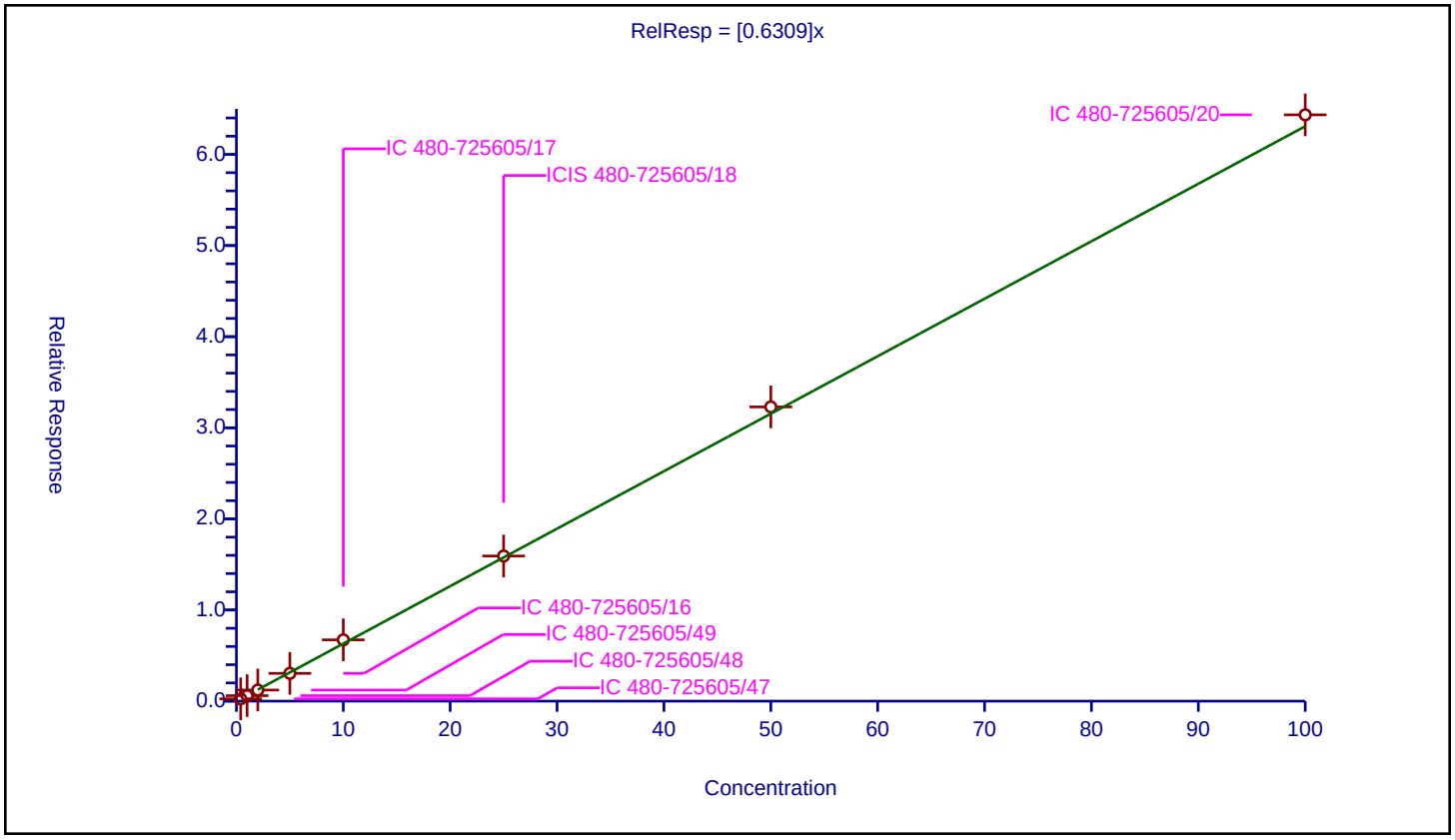
Curve Coefficients

Intercept:	0
Slope:	0.6309

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.251384	25.0	375819.0	0.628461	Y
2	IC 480-725605/48	1.0	0.601472	25.0	371339.0	0.601472	Y
3	IC 480-725605/49	2.0	1.216569	25.0	366687.0	0.608284	Y
4	IC 480-725605/16	5.0	3.048542	25.0	347617.0	0.609708	Y
5	IC 480-725605/17	10.0	6.726769	25.0	339171.0	0.672677	Y
6	ICIS 480-725605/18	25.0	15.927781	25.0	336464.0	0.637111	Y
7	IC 480-725605/19	50.0	32.292356	25.0	341666.0	0.645847	Y
8	IC 480-725605/20	100.0	64.348067	25.0	346247.0	0.643481	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

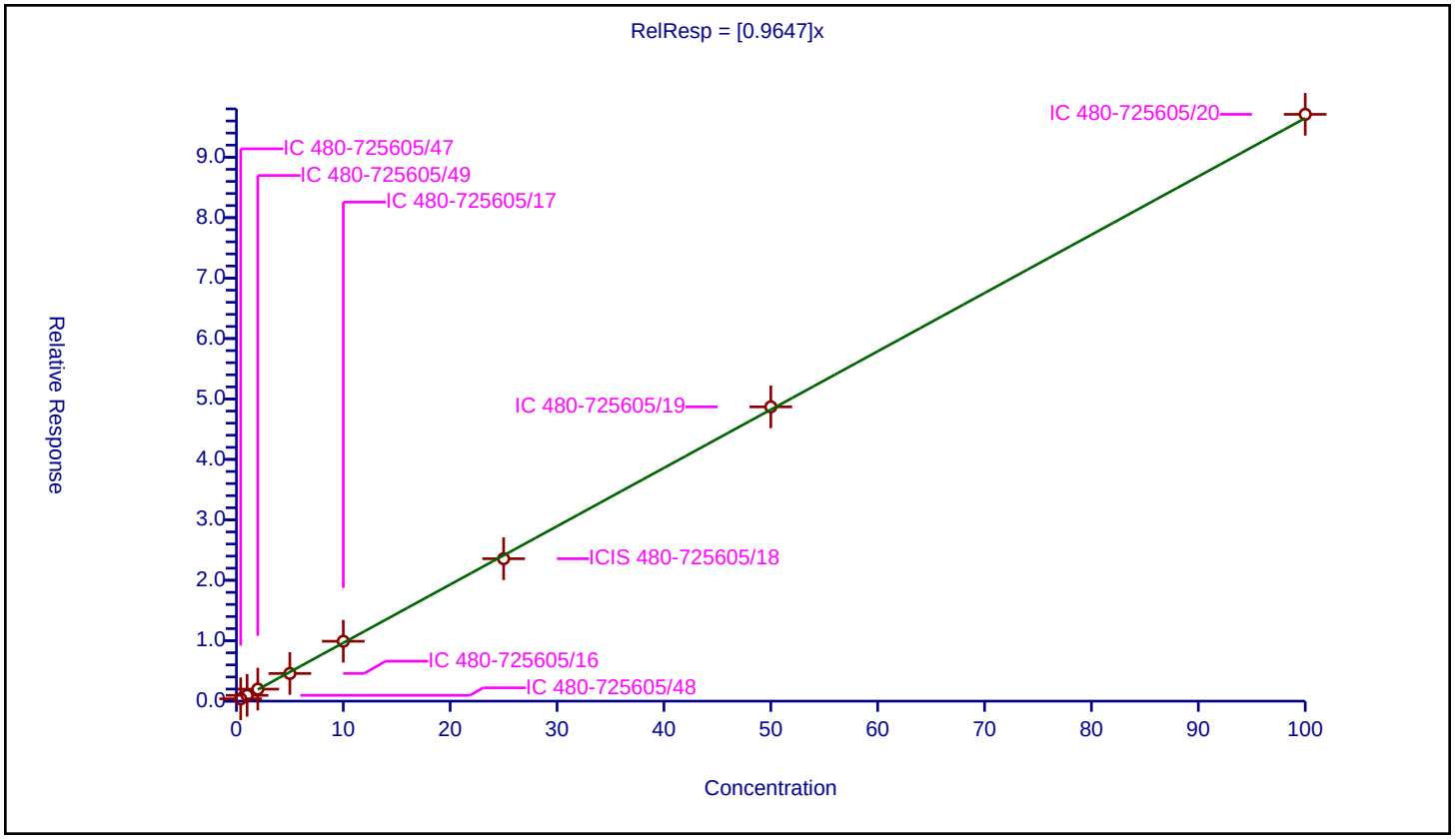
Curve Coefficients

Intercept:	0
Slope:	0.9647

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.387487	25.0	375819.0	0.968718	Y
2	IC 480-725605/48	1.0	0.960376	25.0	371339.0	0.960376	Y
3	IC 480-725605/49	2.0	1.990253	25.0	366687.0	0.995127	Y
4	IC 480-725605/16	5.0	4.576085	25.0	347617.0	0.915217	Y
5	IC 480-725605/17	10.0	9.907318	25.0	339171.0	0.990732	Y
6	ICIS 480-725605/18	25.0	23.566117	25.0	336464.0	0.942645	Y
7	IC 480-725605/19	50.0	48.696241	25.0	341666.0	0.973925	Y
8	IC 480-725605/20	100.0	97.101202	25.0	346247.0	0.971012	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

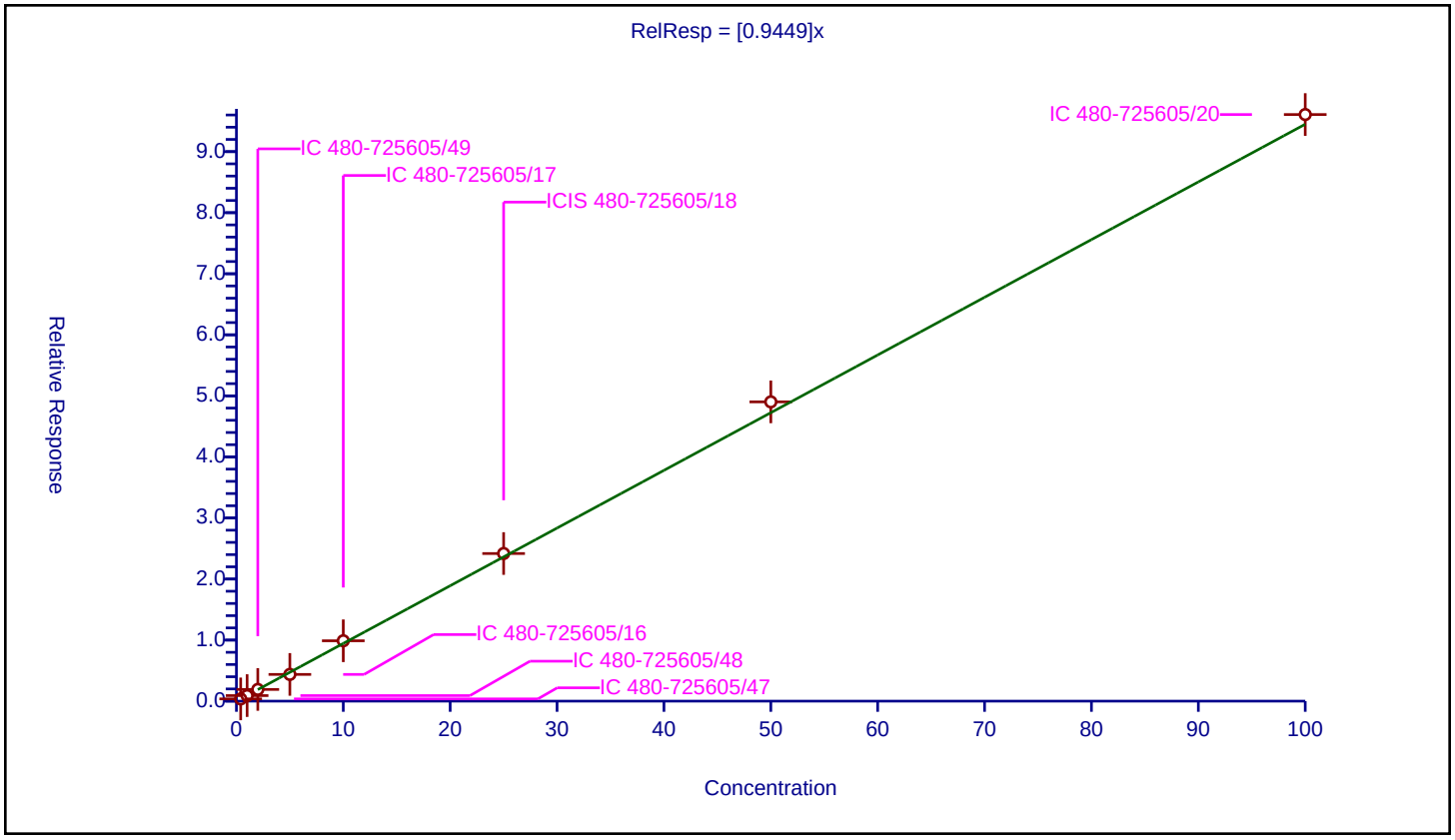
Curve Coefficients

Intercept:	0
Slope:	0.9449

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.366799	25.0	375819.0	0.916997	Y
2	IC 480-725605/48	1.0	0.911364	25.0	371339.0	0.911364	Y
3	IC 480-725605/49	2.0	1.915871	25.0	366687.0	0.957936	Y
4	IC 480-725605/16	5.0	4.378382	25.0	347617.0	0.875676	Y
5	IC 480-725605/17	10.0	9.886901	25.0	339171.0	0.98869	Y
6	ICIS 480-725605/18	25.0	24.179184	25.0	336464.0	0.967167	Y
7	IC 480-725605/19	50.0	49.016144	25.0	341666.0	0.980323	Y
8	IC 480-725605/20	100.0	96.075417	25.0	346247.0	0.960754	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

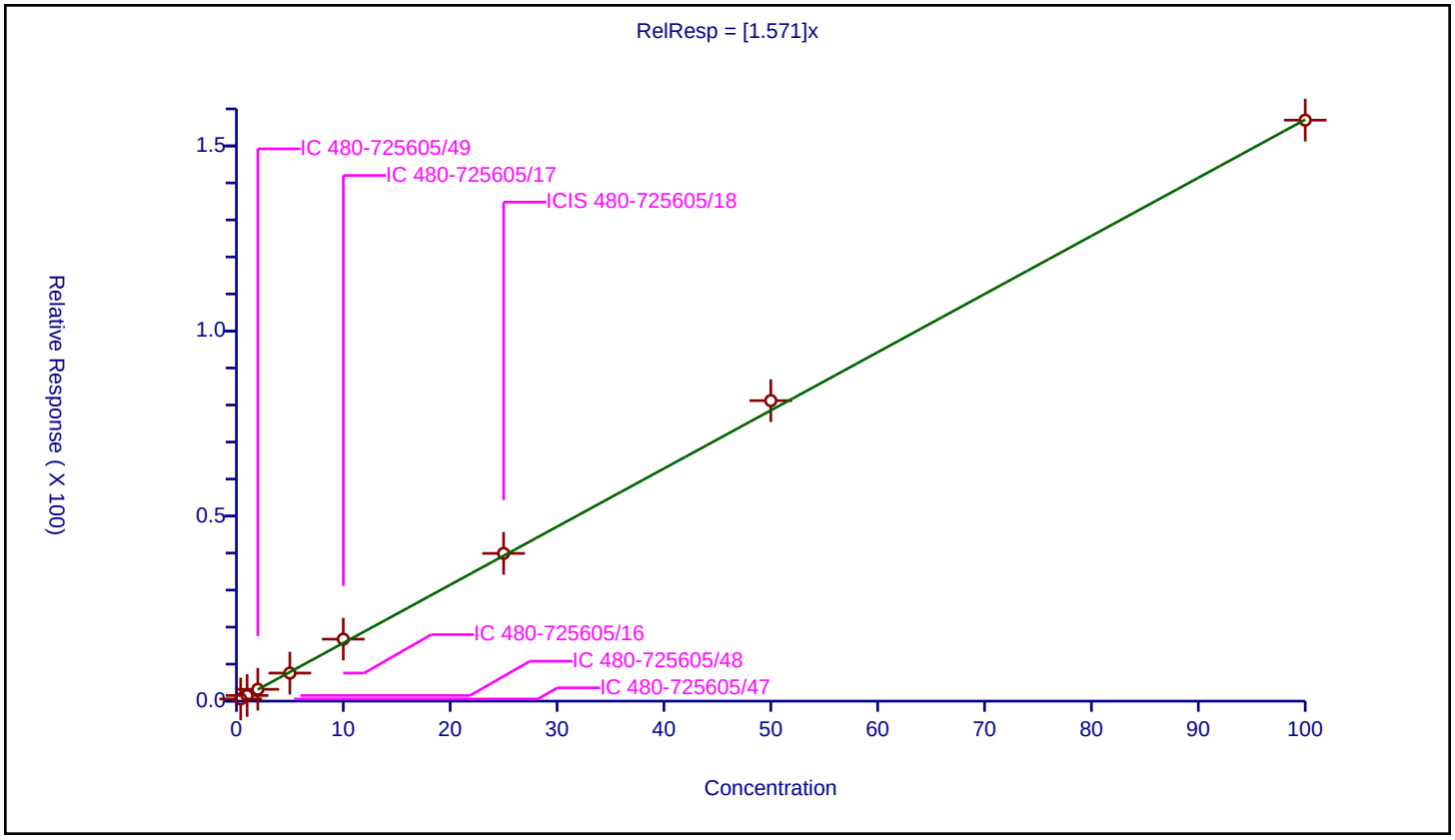
Curve Coefficients

Intercept:	0
Slope:	1.571

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.587184	25.0	375819.0	1.467961	Y
2	IC 480-725605/48	1.0	1.519838	25.0	371339.0	1.519838	Y
3	IC 480-725605/49	2.0	3.197754	25.0	366687.0	1.598877	Y
4	IC 480-725605/16	5.0	7.583849	25.0	347617.0	1.51677	Y
5	IC 480-725605/17	10.0	16.746567	25.0	339171.0	1.674657	Y
6	ICIS 480-725605/18	25.0	39.91586	25.0	336464.0	1.596634	Y
7	IC 480-725605/19	50.0	81.192524	25.0	341666.0	1.62385	Y
8	IC 480-725605/20	100.0	156.958183	25.0	346247.0	1.569582	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

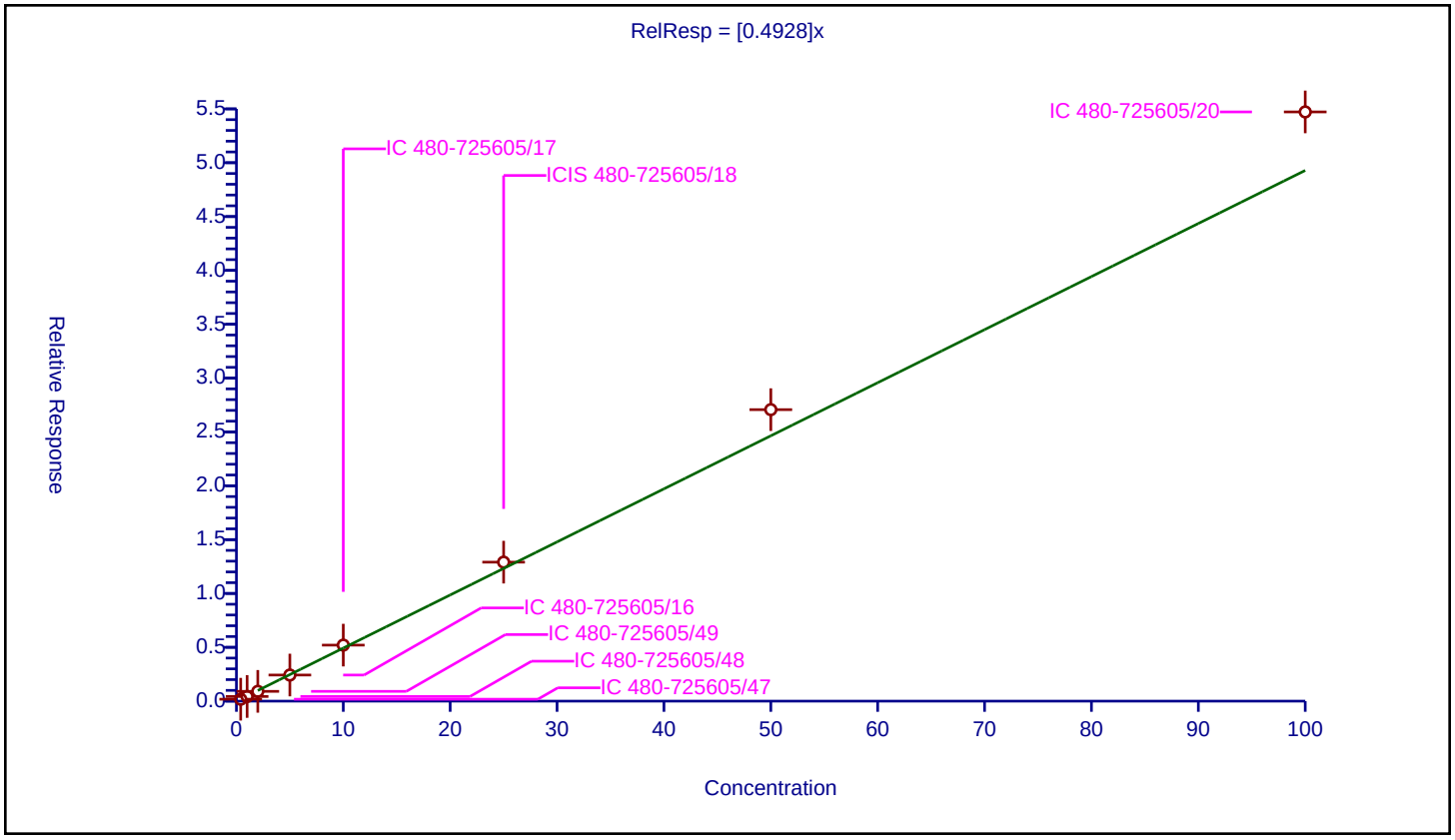
Curve Coefficients

Intercept:	0
Slope:	0.4928

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.178144	25.0	375819.0	0.445361	Y
2	IC 480-725605/48	1.0	0.43222	25.0	371339.0	0.43222	Y
3	IC 480-725605/49	2.0	0.909495	25.0	366687.0	0.454748	Y
4	IC 480-725605/16	5.0	2.426377	25.0	347617.0	0.485275	Y
5	IC 480-725605/17	10.0	5.202685	25.0	339171.0	0.520269	Y
6	ICIS 480-725605/18	25.0	12.908216	25.0	336464.0	0.516329	Y
7	IC 480-725605/19	50.0	27.069346	25.0	341666.0	0.541387	Y
8	IC 480-725605/20	100.0	54.718308	25.0	346247.0	0.547183	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

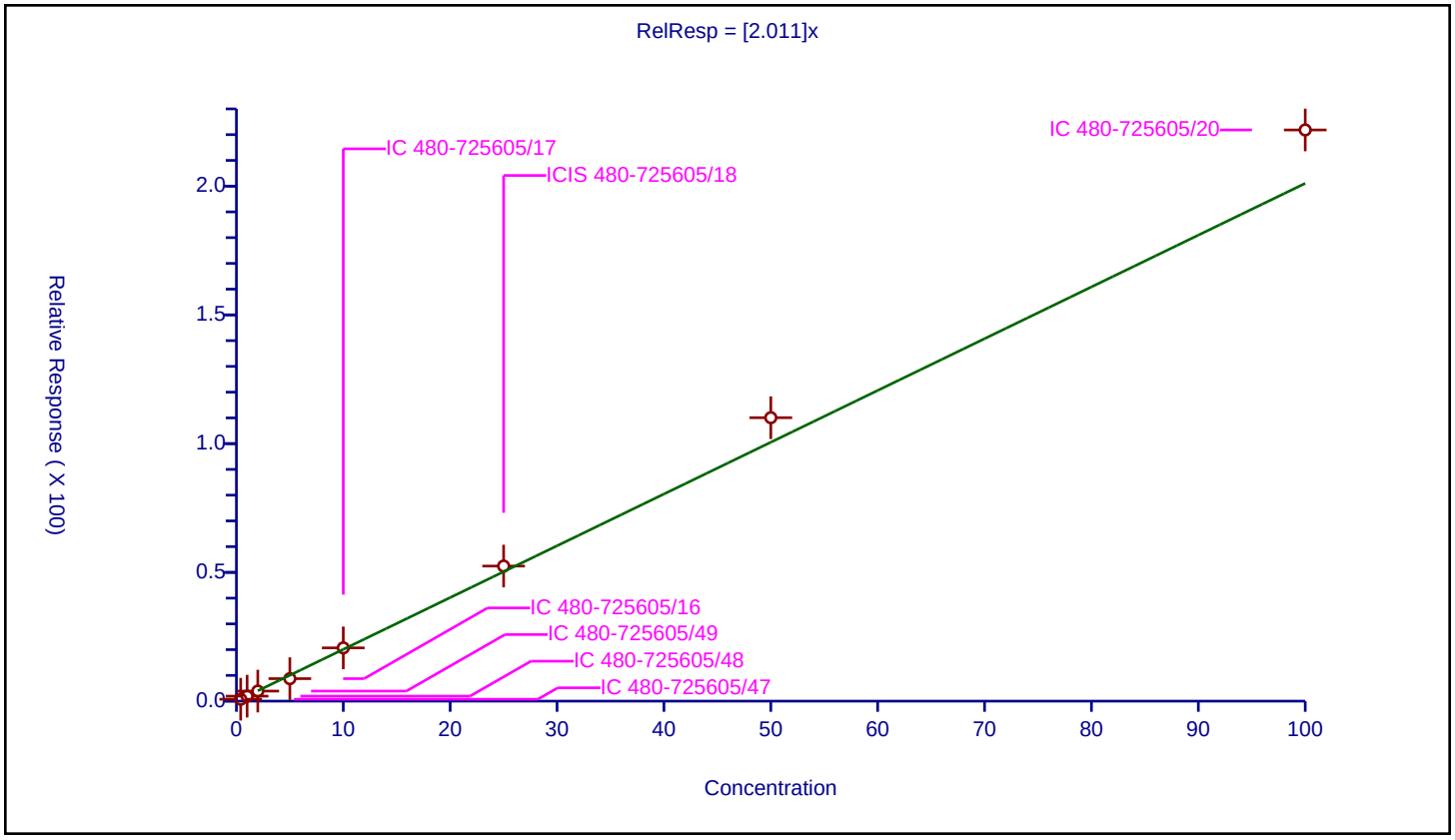
Curve Coefficients

Intercept:	0
Slope:	2.011

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.744559	25.0	433411.0	1.861397	Y
2	IC 480-725605/48	1.0	1.94078	25.0	422897.0	1.94078	Y
3	IC 480-725605/49	2.0	3.904287	25.0	431468.0	1.952144	Y
4	IC 480-725605/16	5.0	8.729863	25.0	406653.0	1.745973	Y
5	IC 480-725605/17	10.0	20.680991	25.0	385372.0	2.068099	Y
6	ICIS 480-725605/18	25.0	52.456365	25.0	363759.0	2.098255	Y
7	IC 480-725605/19	50.0	110.077845	25.0	365986.0	2.201557	Y
8	IC 480-725605/20	100.0	221.815797	25.0	362948.0	2.218158	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

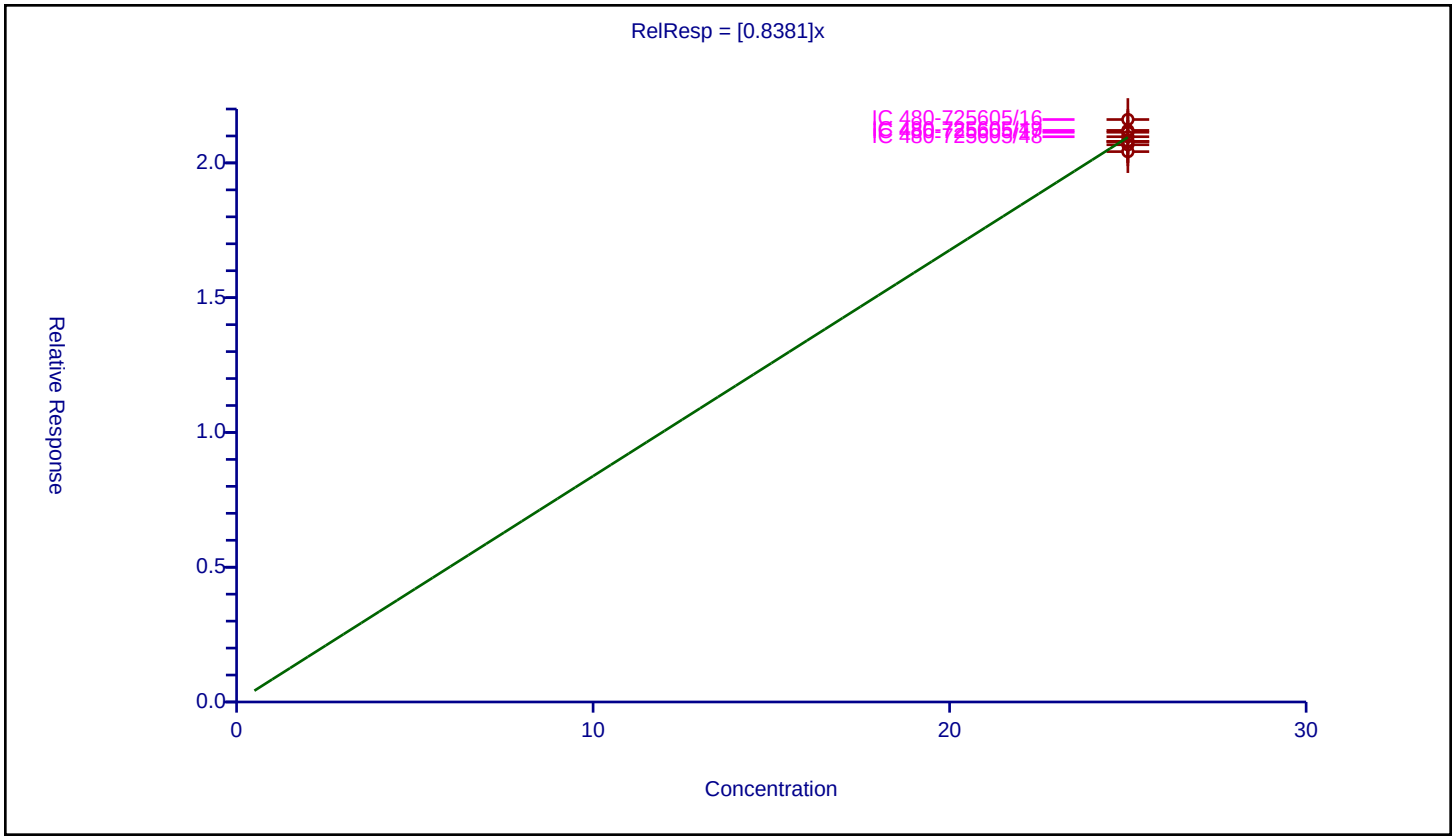
Curve Coefficients

Intercept:	0
Slope:	0.8381

Error Coefficients

Relative Standard Deviation:	1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/16	25.0	21.61035	25.0	347617.0	0.864414	Y
2	IC 480-725605/17	25.0	21.137715	25.0	339171.0	0.845509	Y
3	ICIS 480-725605/18	25.0	20.790114	25.0	336464.0	0.831605	Y
4	IC 480-725605/19	25.0	20.41943	25.0	341666.0	0.816777	Y
5	IC 480-725605/20	25.0	20.67397	25.0	346247.0	0.826959	Y
6	IC 480-725605/47	25.0	20.800904	25.0	375819.0	0.832036	Y
7	IC 480-725605/48	25.0	20.971673	25.0	371339.0	0.838867	Y
8	IC 480-725605/49	25.0	21.206506	25.0	366687.0	0.84826	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

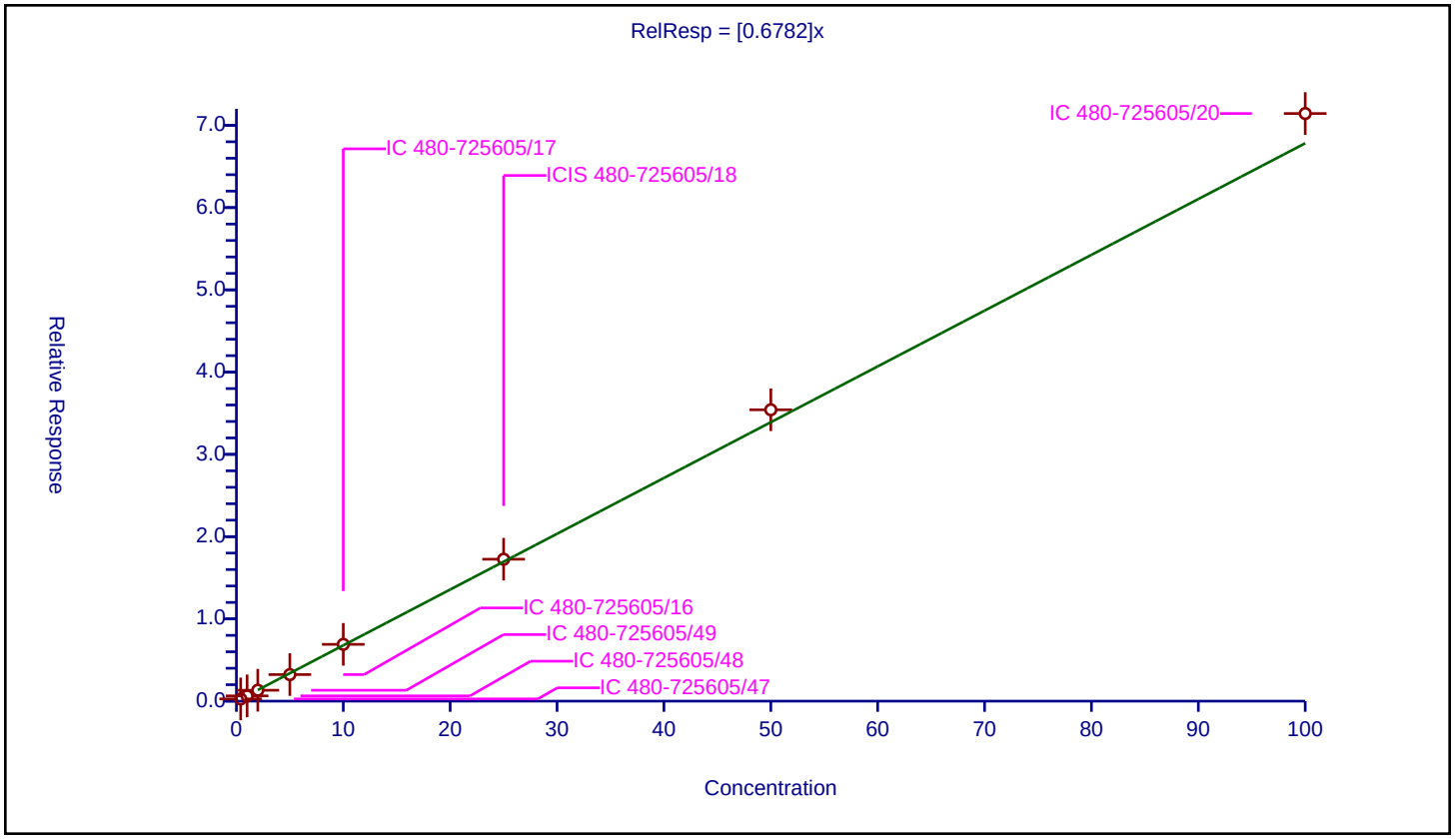
Curve Coefficients

Intercept:	0
Slope:	0.6782

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.269952	25.0	433411.0	0.674879	Y
2	IC 480-725605/48	1.0	0.639399	25.0	422897.0	0.639399	Y
3	IC 480-725605/49	2.0	1.324548	25.0	431468.0	0.662274	Y
4	IC 480-725605/16	5.0	3.22892	25.0	406653.0	0.645784	Y
5	IC 480-725605/17	10.0	6.90333	25.0	385372.0	0.690333	Y
6	ICIS 480-725605/18	25.0	17.254831	25.0	363759.0	0.690193	Y
7	IC 480-725605/19	50.0	35.419797	25.0	365986.0	0.708396	Y
8	IC 480-725605/20	100.0	71.436542	25.0	362948.0	0.714365	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

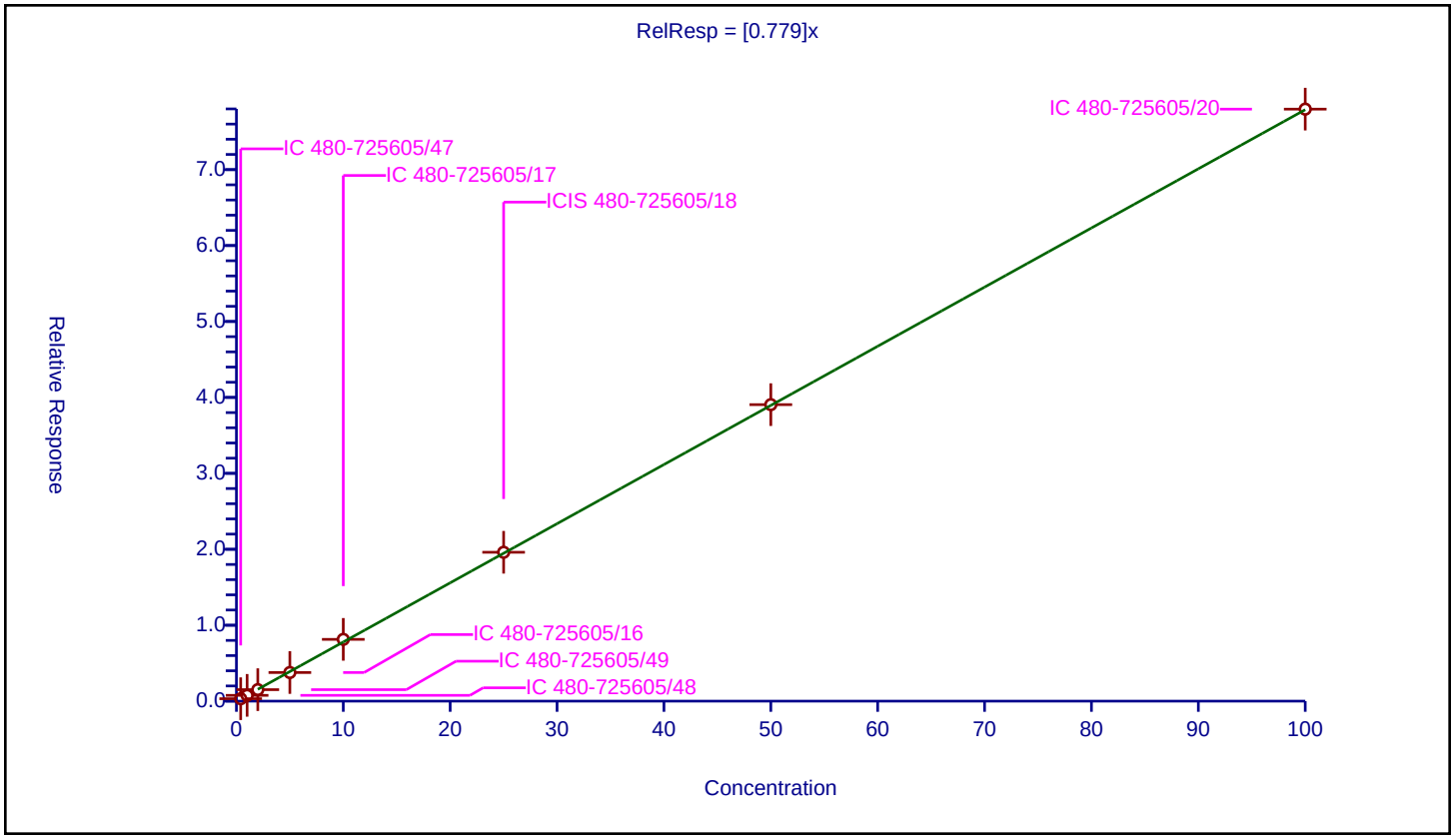
Curve Coefficients

Intercept:	0
Slope:	0.779

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.319789	25.0	433411.0	0.799472	Y
2	IC 480-725605/48	1.0	0.762656	25.0	422897.0	0.762656	Y
3	IC 480-725605/49	2.0	1.514423	25.0	431468.0	0.757211	Y
4	IC 480-725605/16	5.0	3.769246	25.0	406653.0	0.753849	Y
5	IC 480-725605/17	10.0	8.13597	25.0	385372.0	0.813597	Y
6	ICIS 480-725605/18	25.0	19.604876	25.0	363759.0	0.784195	Y
7	IC 480-725605/19	50.0	39.048693	25.0	365986.0	0.780974	Y
8	IC 480-725605/20	100.0	77.9684	25.0	362948.0	0.779684	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

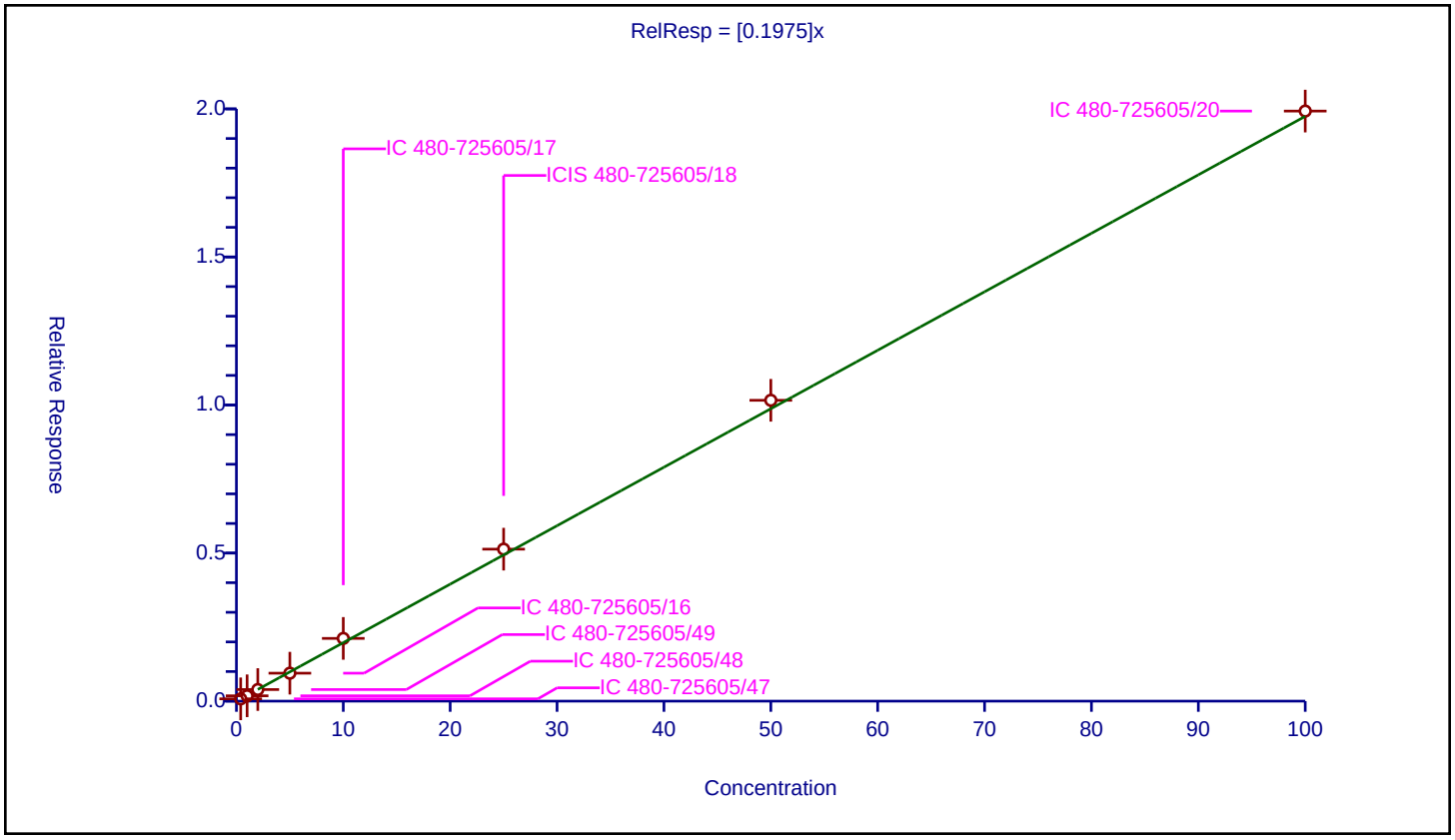
Curve Coefficients

Intercept:	0
Slope:	0.1975

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.078044	25.0	433411.0	0.195109	Y
2	IC 480-725605/48	1.0	0.180422	25.0	422897.0	0.180422	Y
3	IC 480-725605/49	2.0	0.39186	25.0	431468.0	0.19593	Y
4	IC 480-725605/16	5.0	0.944048	25.0	406653.0	0.18881	Y
5	IC 480-725605/17	10.0	2.118213	25.0	385372.0	0.211821	Y
6	ICIS 480-725605/18	25.0	5.132725	25.0	363759.0	0.205309	Y
7	IC 480-725605/19	50.0	10.159473	25.0	365986.0	0.203189	Y
8	IC 480-725605/20	100.0	19.926684	25.0	362948.0	0.199267	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

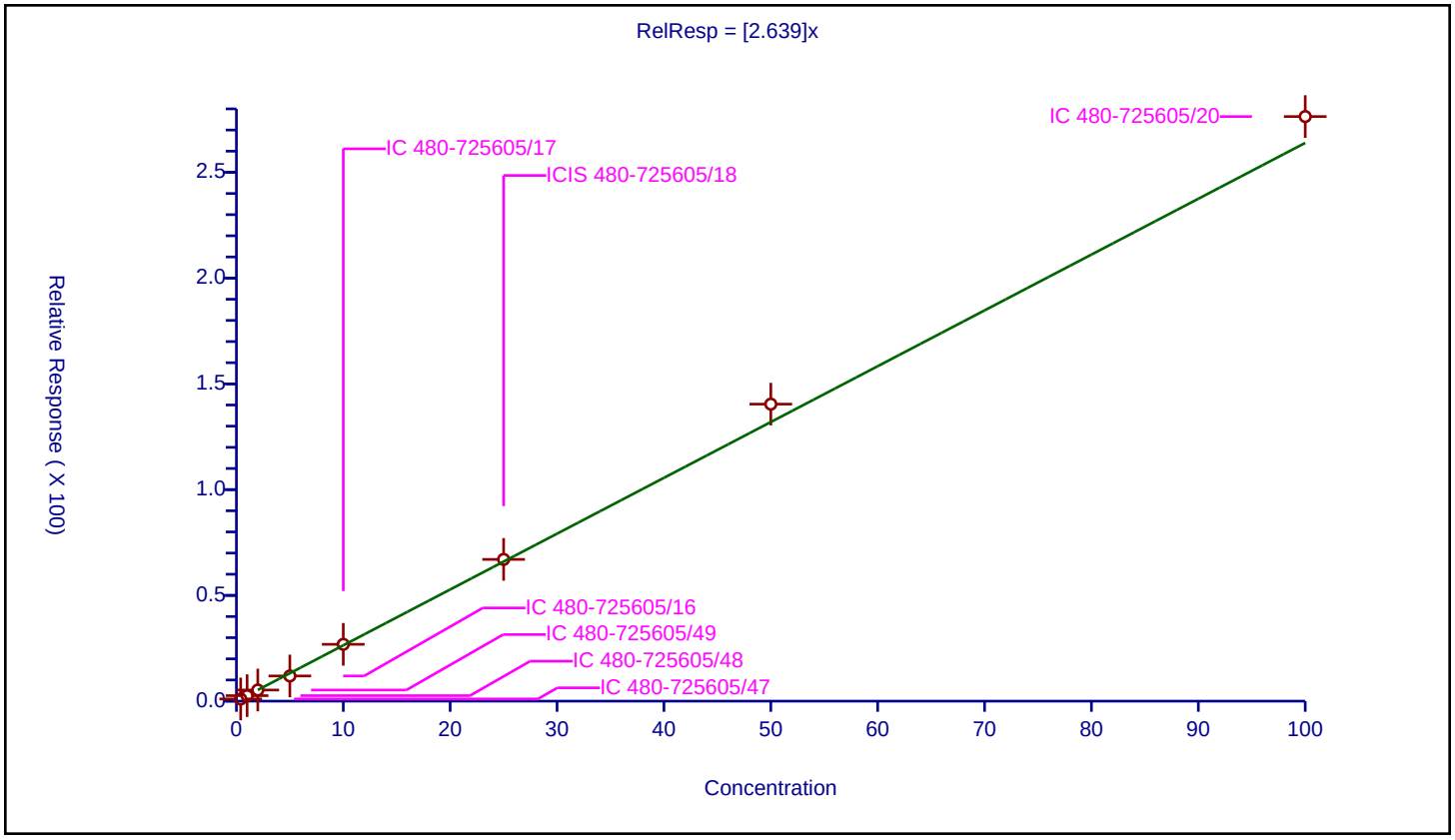
Curve Coefficients

Intercept:	0
Slope:	2.639

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	1.028066	25.0	433411.0	2.570164	Y
2	IC 480-725605/48	1.0	2.597559	25.0	422897.0	2.597559	Y
3	IC 480-725605/49	2.0	5.251085	25.0	431468.0	2.625542	Y
4	IC 480-725605/16	5.0	11.899642	25.0	406653.0	2.379928	Y
5	IC 480-725605/17	10.0	26.865924	25.0	385372.0	2.686592	Y
6	ICIS 480-725605/18	25.0	67.009957	25.0	363759.0	2.680398	Y
7	IC 480-725605/19	50.0	140.423746	25.0	365986.0	2.808475	Y
8	IC 480-725605/20	100.0	276.369755	25.0	362948.0	2.763698	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

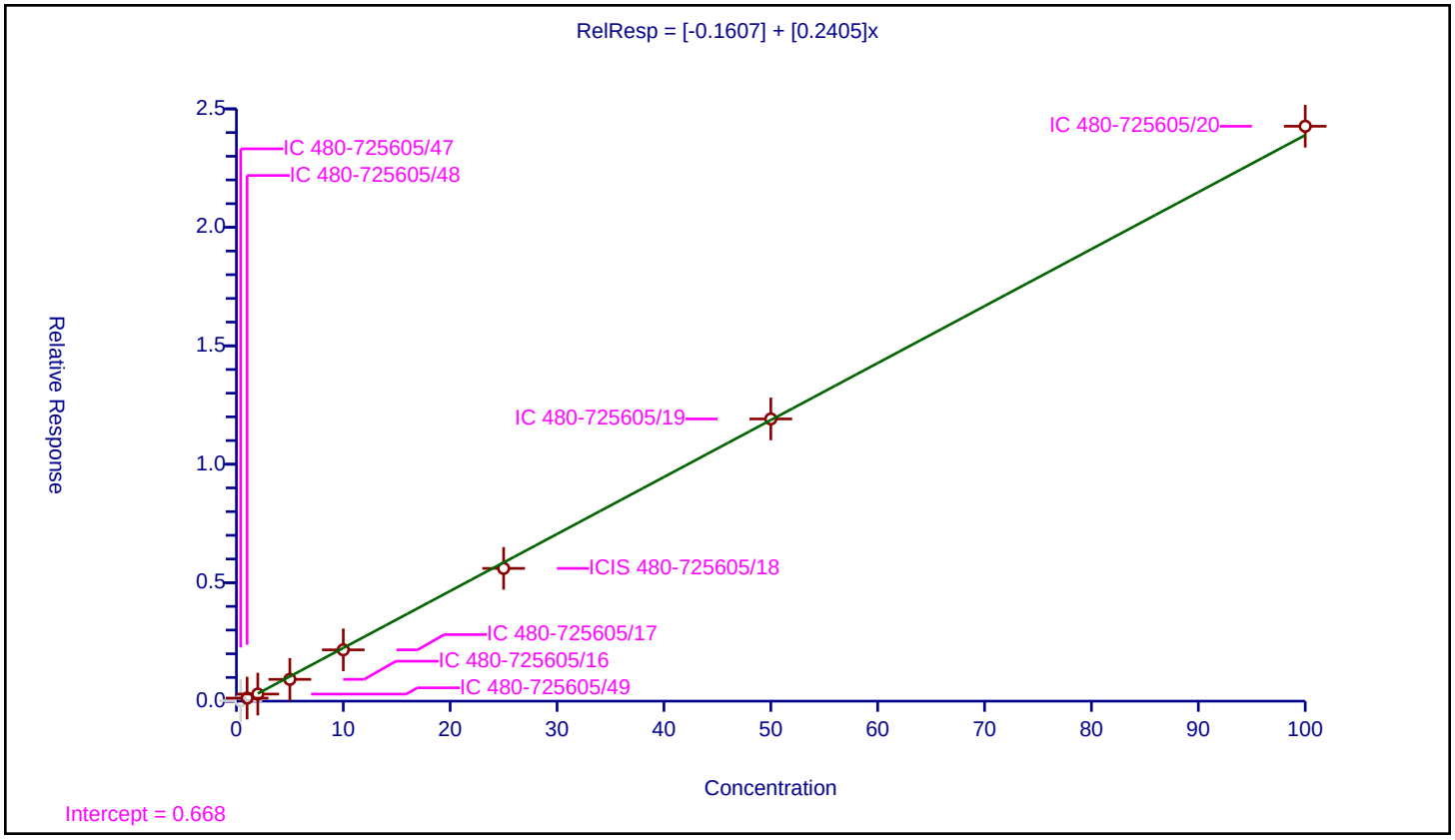
Curve Coefficients

Intercept:	-0.1607
Slope:	0.2405

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.017247	25.0	433411.0	0.043117	N
2	IC 480-725605/48	1.0	0.128577	25.0	422897.0	0.128577	Y
3	IC 480-725605/49	2.0	0.298052	25.0	431468.0	0.149026	Y
4	IC 480-725605/16	5.0	0.918842	25.0	406653.0	0.183768	Y
5	IC 480-725605/17	10.0	2.165829	25.0	385372.0	0.216583	Y
6	ICIS 480-725605/18	25.0	5.603985	25.0	363759.0	0.224159	Y
7	IC 480-725605/19	50.0	11.912478	25.0	365986.0	0.23825	Y
8	IC 480-725605/20	100.0	24.267113	25.0	362948.0	0.242671	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

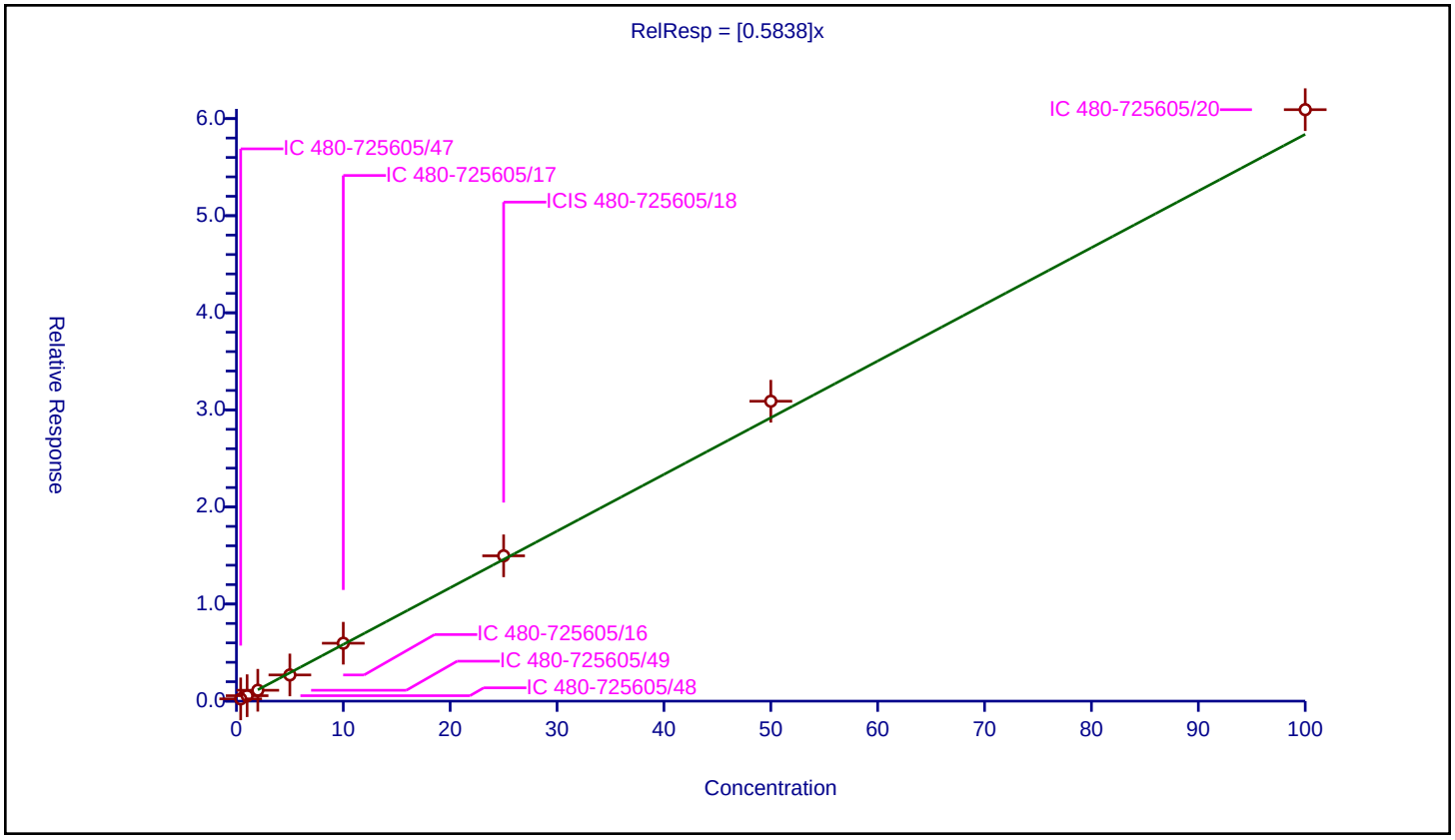
Curve Coefficients

Intercept:	0
Slope:	0.5838

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.235112	25.0	433411.0	0.587779	Y
2	IC 480-725605/48	1.0	0.56113	25.0	422897.0	0.56113	Y
3	IC 480-725605/49	2.0	1.120187	25.0	431468.0	0.560094	Y
4	IC 480-725605/16	5.0	2.697201	25.0	406653.0	0.53944	Y
5	IC 480-725605/17	10.0	5.964302	25.0	385372.0	0.59643	Y
6	ICIS 480-725605/18	25.0	14.968496	25.0	363759.0	0.59874	Y
7	IC 480-725605/19	50.0	30.889433	25.0	365986.0	0.617789	Y
8	IC 480-725605/20	100.0	60.921399	25.0	362948.0	0.609214	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

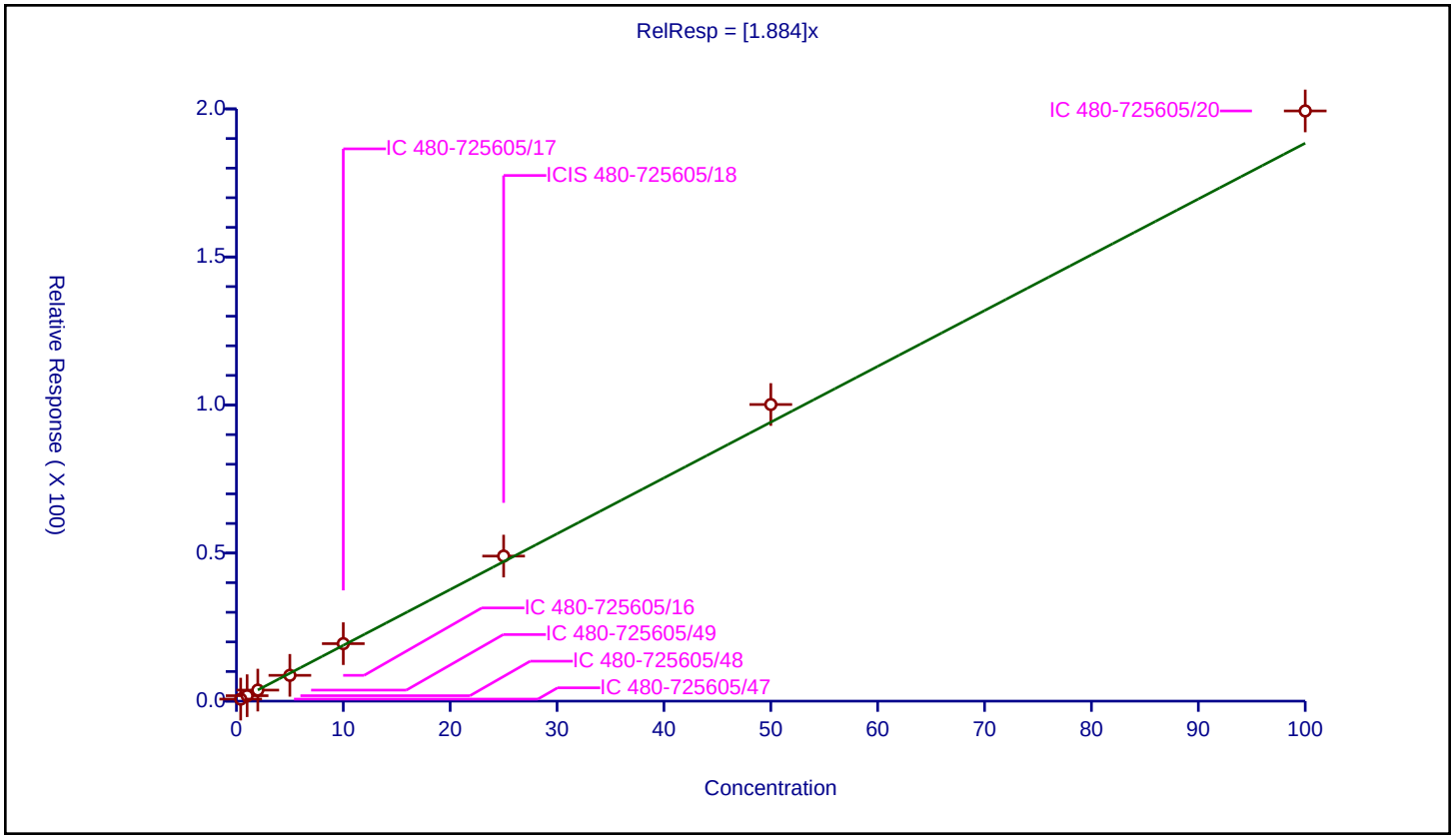
Curve Coefficients

Intercept:	0
Slope:	1.884

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.690395	25.0	433411.0	1.725989	Y
2	IC 480-725605/48	1.0	1.841938	25.0	422897.0	1.841938	Y
3	IC 480-725605/49	2.0	3.730404	25.0	431468.0	1.865202	Y
4	IC 480-725605/16	5.0	8.71394	25.0	406653.0	1.742788	Y
5	IC 480-725605/17	10.0	19.41585	25.0	385372.0	1.941585	Y
6	ICIS 480-725605/18	25.0	48.98463	25.0	363759.0	1.959385	Y
7	IC 480-725605/19	50.0	100.170498	25.0	365986.0	2.00341	Y
8	IC 480-725605/20	100.0	199.311816	25.0	362948.0	1.993118	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

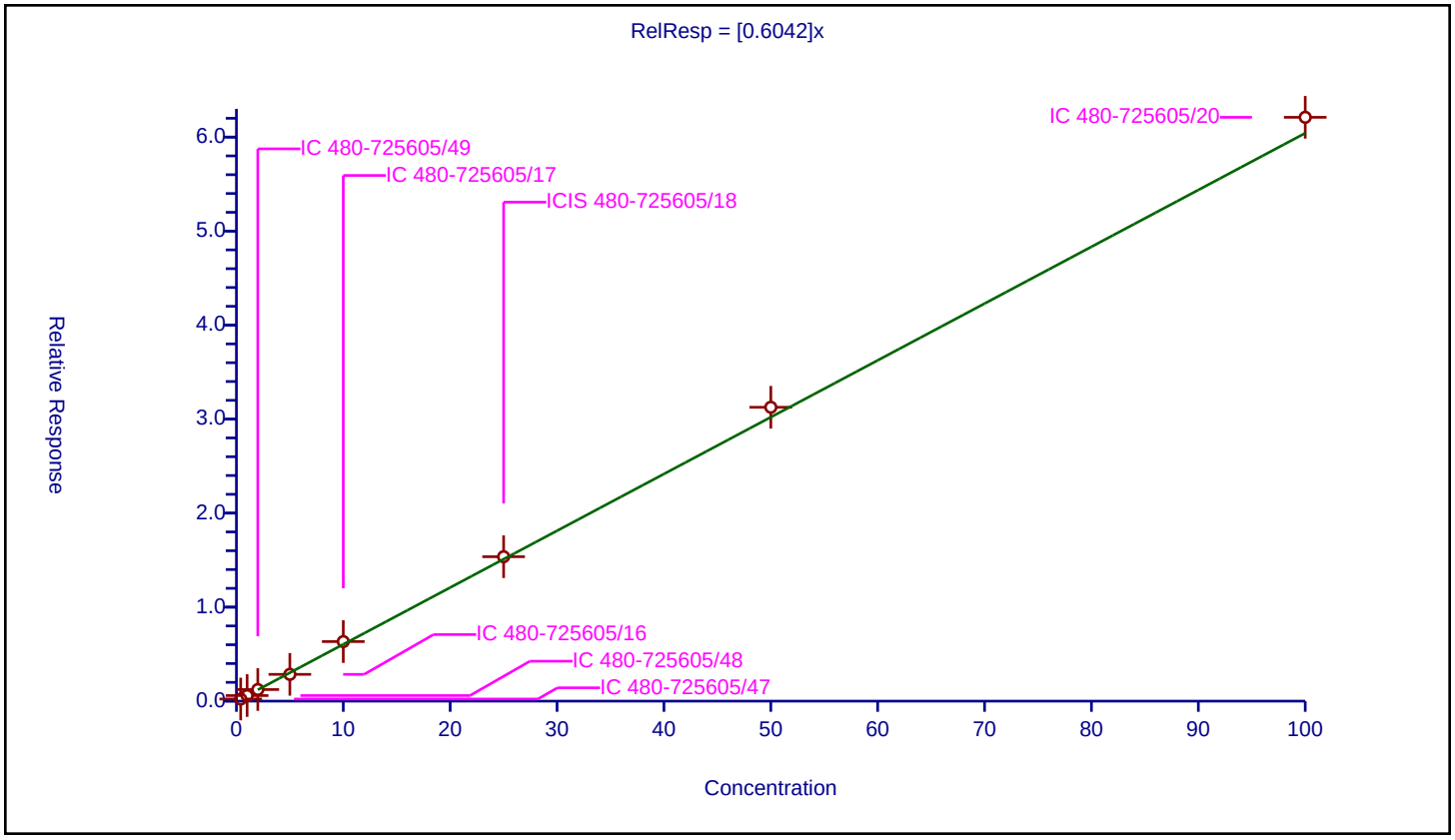
Curve Coefficients

Intercept:	0
Slope:	0.6042

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.223979	25.0	433411.0	0.559948	Y
2	IC 480-725605/48	1.0	0.592993	25.0	422897.0	0.592993	Y
3	IC 480-725605/49	2.0	1.232594	25.0	431468.0	0.616297	Y
4	IC 480-725605/16	5.0	2.849481	25.0	406653.0	0.569896	Y
5	IC 480-725605/17	10.0	6.334983	25.0	385372.0	0.633498	Y
6	ICIS 480-725605/18	25.0	15.36285	25.0	363759.0	0.614514	Y
7	IC 480-725605/19	50.0	31.260349	25.0	365986.0	0.625207	Y
8	IC 480-725605/20	100.0	62.103662	25.0	362948.0	0.621037	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

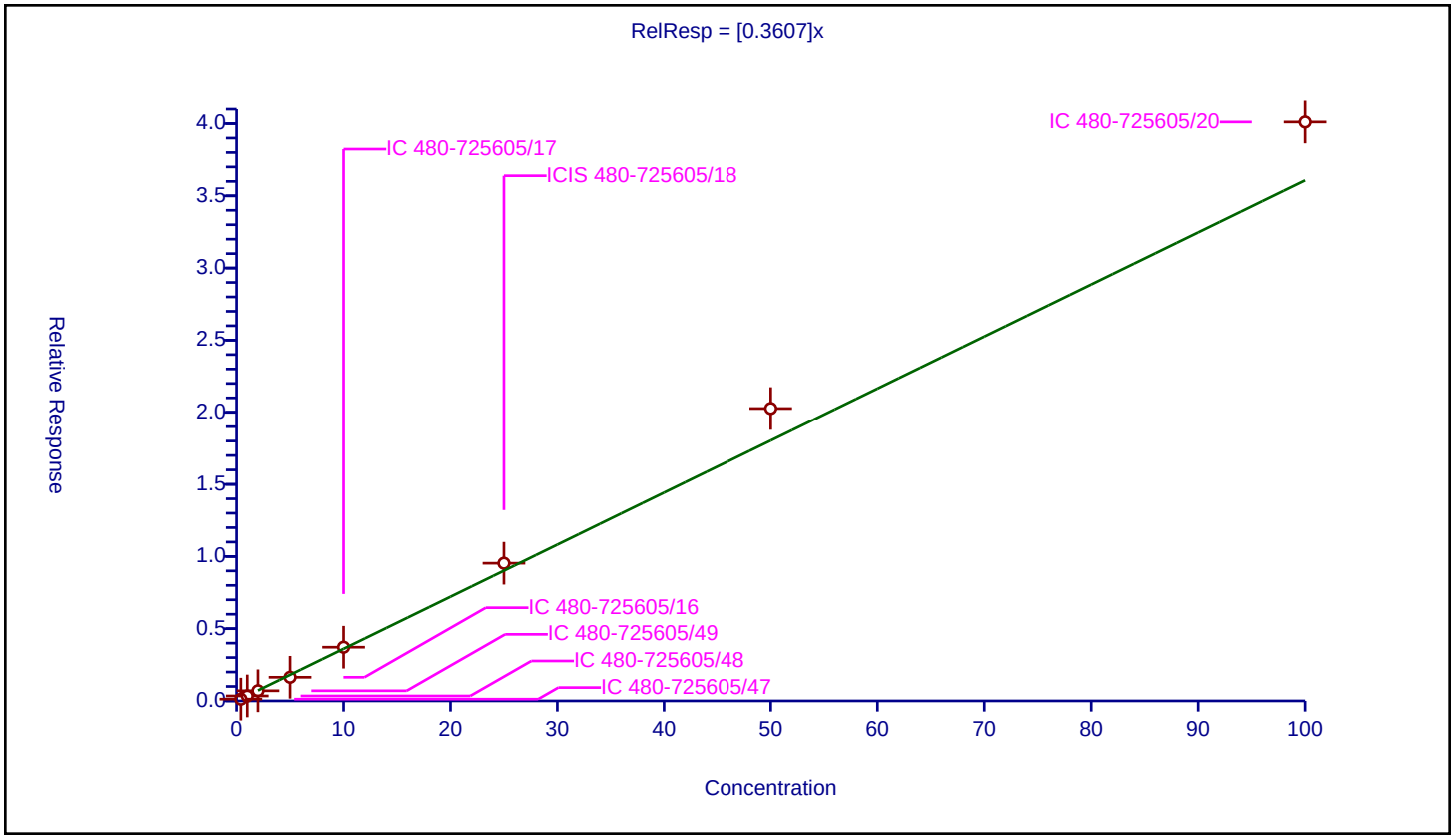
Curve Coefficients

Intercept:	0
Slope:	0.3607

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.122113	25.0	433411.0	0.305282	Y
2	IC 480-725605/48	1.0	0.343346	25.0	422897.0	0.343346	Y
3	IC 480-725605/49	2.0	0.700921	25.0	431468.0	0.350461	Y
4	IC 480-725605/16	5.0	1.636223	25.0	406653.0	0.327245	Y
5	IC 480-725605/17	10.0	3.718874	25.0	385372.0	0.371887	Y
6	ICIS 480-725605/18	25.0	9.533441	25.0	363759.0	0.381338	Y
7	IC 480-725605/19	50.0	20.261294	25.0	365986.0	0.405226	Y
8	IC 480-725605/20	100.0	40.113322	25.0	362948.0	0.401133	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

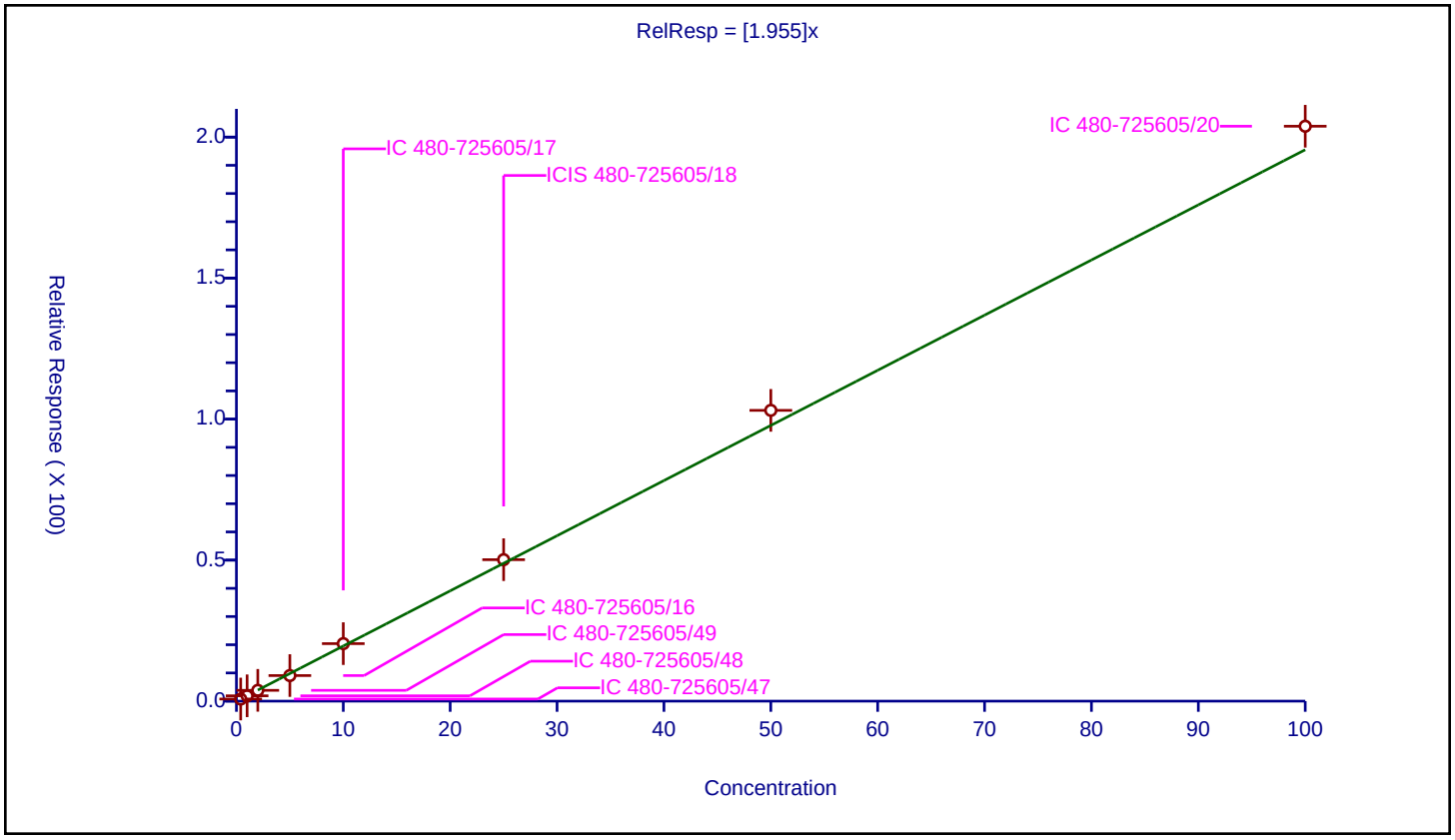
Curve Coefficients

Intercept:	0
Slope:	1.955

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.746693	25.0	433411.0	1.866733	Y
2	IC 480-725605/48	1.0	1.897743	25.0	422897.0	1.897743	Y
3	IC 480-725605/49	2.0	3.830585	25.0	431468.0	1.915293	Y
4	IC 480-725605/16	5.0	9.074998	25.0	406653.0	1.815	Y
5	IC 480-725605/17	10.0	20.393801	25.0	385372.0	2.03938	Y
6	ICIS 480-725605/18	25.0	50.161302	25.0	363759.0	2.006452	Y
7	IC 480-725605/19	50.0	103.105857	25.0	365986.0	2.062117	Y
8	IC 480-725605/20	100.0	203.854616	25.0	362948.0	2.038546	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

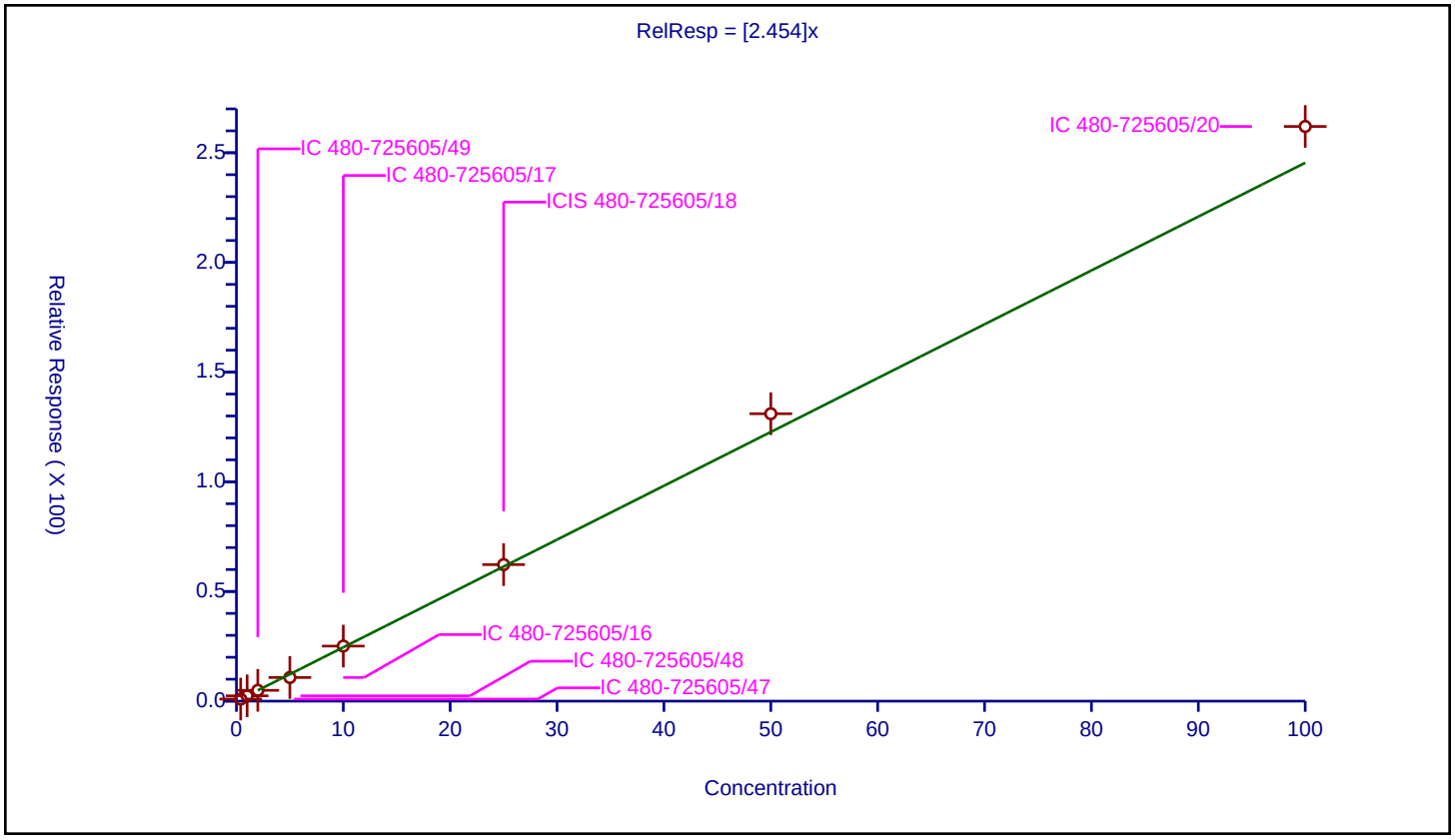
Curve Coefficients

Intercept:	0
Slope:	2.454

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.943216	25.0	433411.0	2.358039	Y
2	IC 480-725605/48	1.0	2.418792	25.0	422897.0	2.418792	Y
3	IC 480-725605/49	2.0	4.921802	25.0	431468.0	2.460901	Y
4	IC 480-725605/16	5.0	10.776817	25.0	406653.0	2.155363	Y
5	IC 480-725605/17	10.0	25.107299	25.0	385372.0	2.51073	Y
6	ICIS 480-725605/18	25.0	62.241278	25.0	363759.0	2.489651	Y
7	IC 480-725605/19	50.0	131.036843	25.0	365986.0	2.620737	Y
8	IC 480-725605/20	100.0	261.989183	25.0	362948.0	2.619892	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

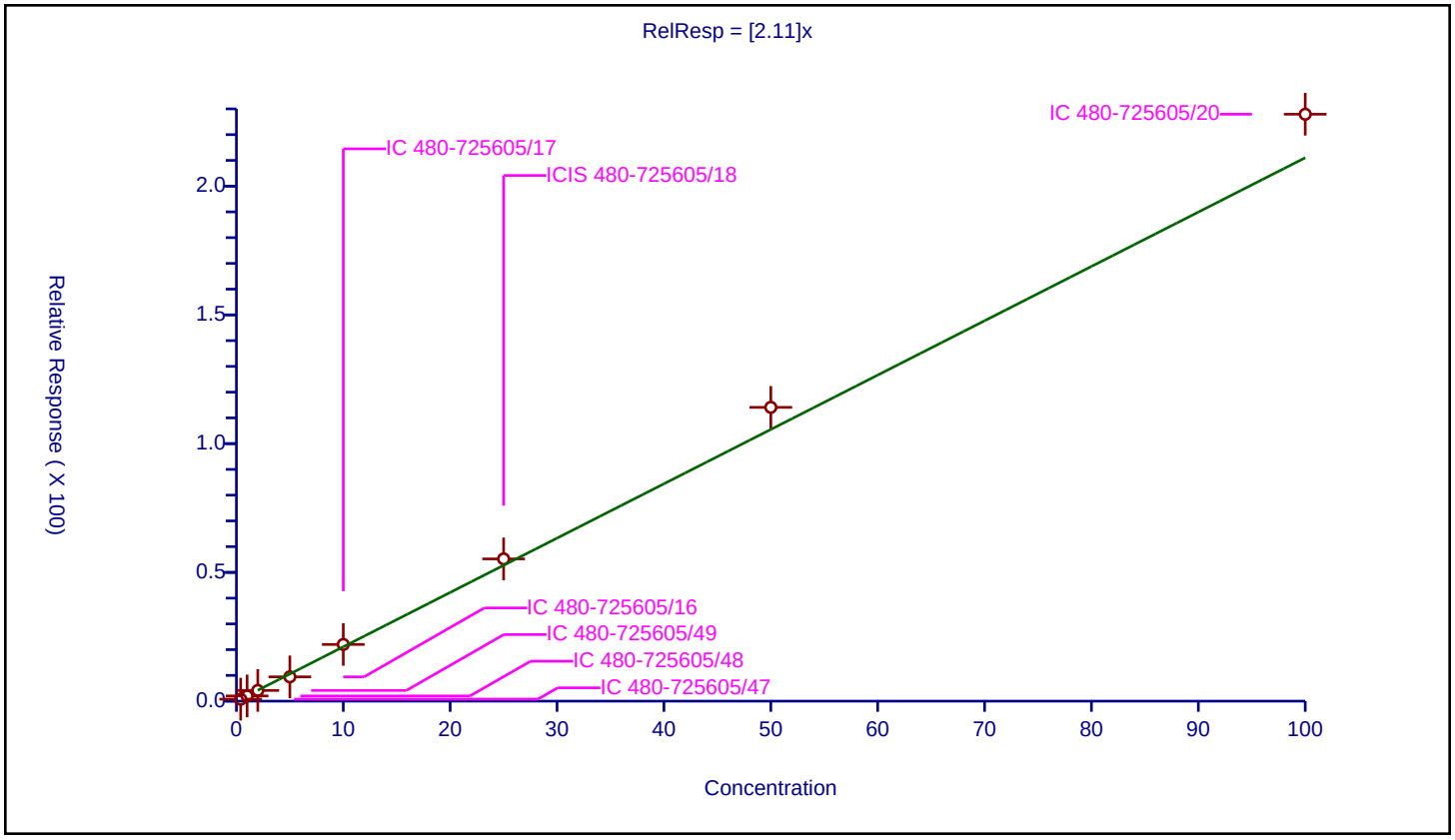
Curve Coefficients

Intercept:	0
Slope:	2.11

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.768093	25.0	433411.0	1.920233	Y
2	IC 480-725605/48	1.0	2.022242	25.0	422897.0	2.022242	Y
3	IC 480-725605/49	2.0	4.157087	25.0	431468.0	2.078543	Y
4	IC 480-725605/16	5.0	9.443125	25.0	406653.0	1.888625	Y
5	IC 480-725605/17	10.0	22.013989	25.0	385372.0	2.201399	Y
6	ICIS 480-725605/18	25.0	55.242963	25.0	363759.0	2.209719	Y
7	IC 480-725605/19	50.0	114.089337	25.0	365986.0	2.281787	Y
8	IC 480-725605/20	100.0	227.919771	25.0	362948.0	2.279198	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

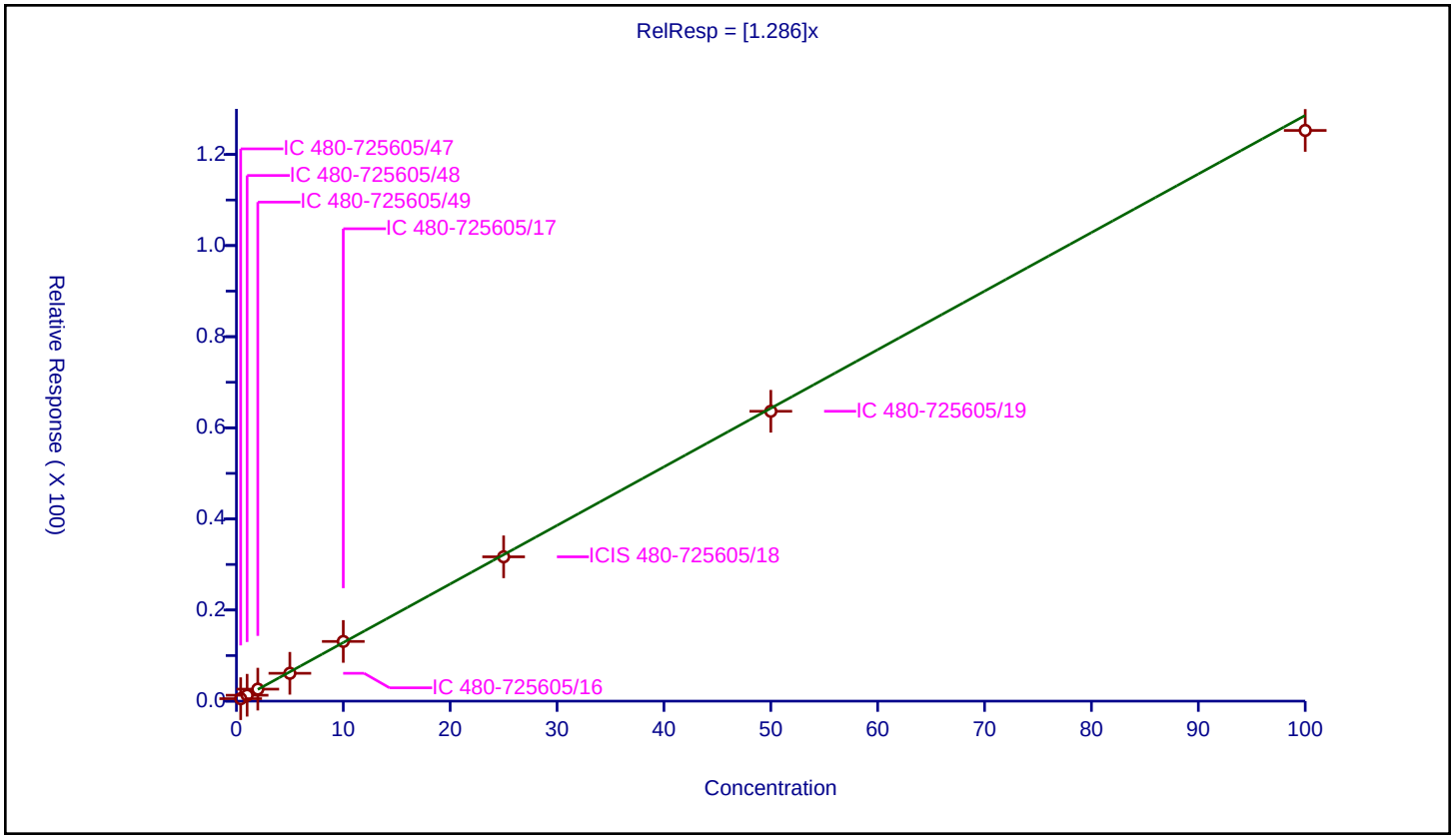
Curve Coefficients

Intercept:	0
Slope:	1.286

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.538692	25.0	433411.0	1.34673	Y
2	IC 480-725605/48	1.0	1.295883	25.0	422897.0	1.295883	Y
3	IC 480-725605/49	2.0	2.634958	25.0	431468.0	1.317479	Y
4	IC 480-725605/16	5.0	6.113873	25.0	406653.0	1.222775	Y
5	IC 480-725605/17	10.0	13.104611	25.0	385372.0	1.310461	Y
6	ICIS 480-725605/18	25.0	31.679079	25.0	363759.0	1.267163	Y
7	IC 480-725605/19	50.0	63.625111	25.0	365986.0	1.272502	Y
8	IC 480-725605/20	100.0	125.273111	25.0	362948.0	1.252731	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

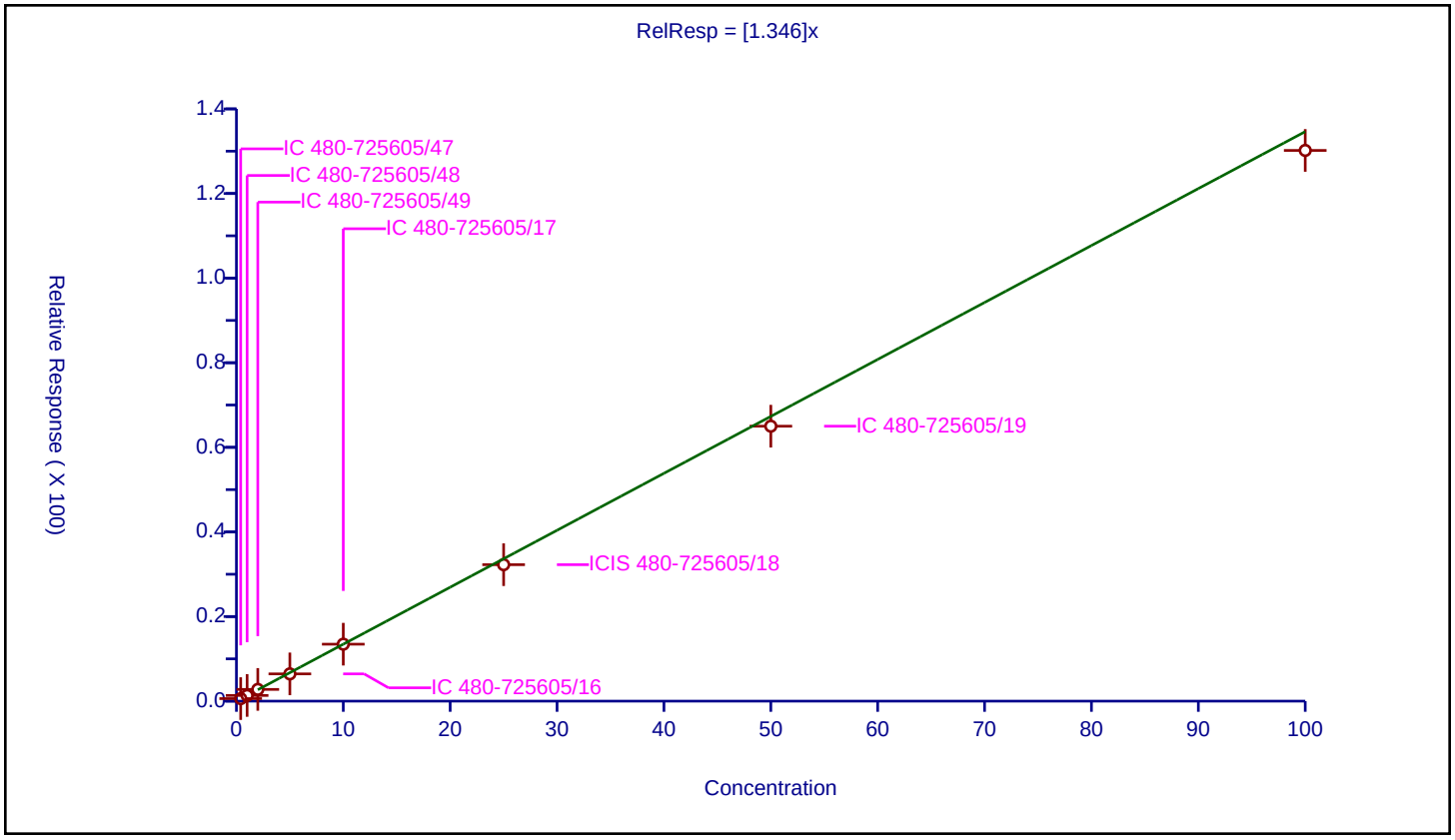
Curve Coefficients

Intercept:	0
Slope:	1.346

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.60393	25.0	433411.0	1.509826	Y
2	IC 480-725605/48	1.0	1.347137	25.0	422897.0	1.347137	Y
3	IC 480-725605/49	2.0	2.770889	25.0	431468.0	1.385445	Y
4	IC 480-725605/16	5.0	6.443823	25.0	406653.0	1.288765	Y
5	IC 480-725605/17	10.0	13.466599	25.0	385372.0	1.34666	Y
6	ICIS 480-725605/18	25.0	32.257965	25.0	363759.0	1.290319	Y
7	IC 480-725605/19	50.0	64.995587	25.0	365986.0	1.299912	Y
8	IC 480-725605/20	100.0	130.181252	25.0	362948.0	1.301813	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

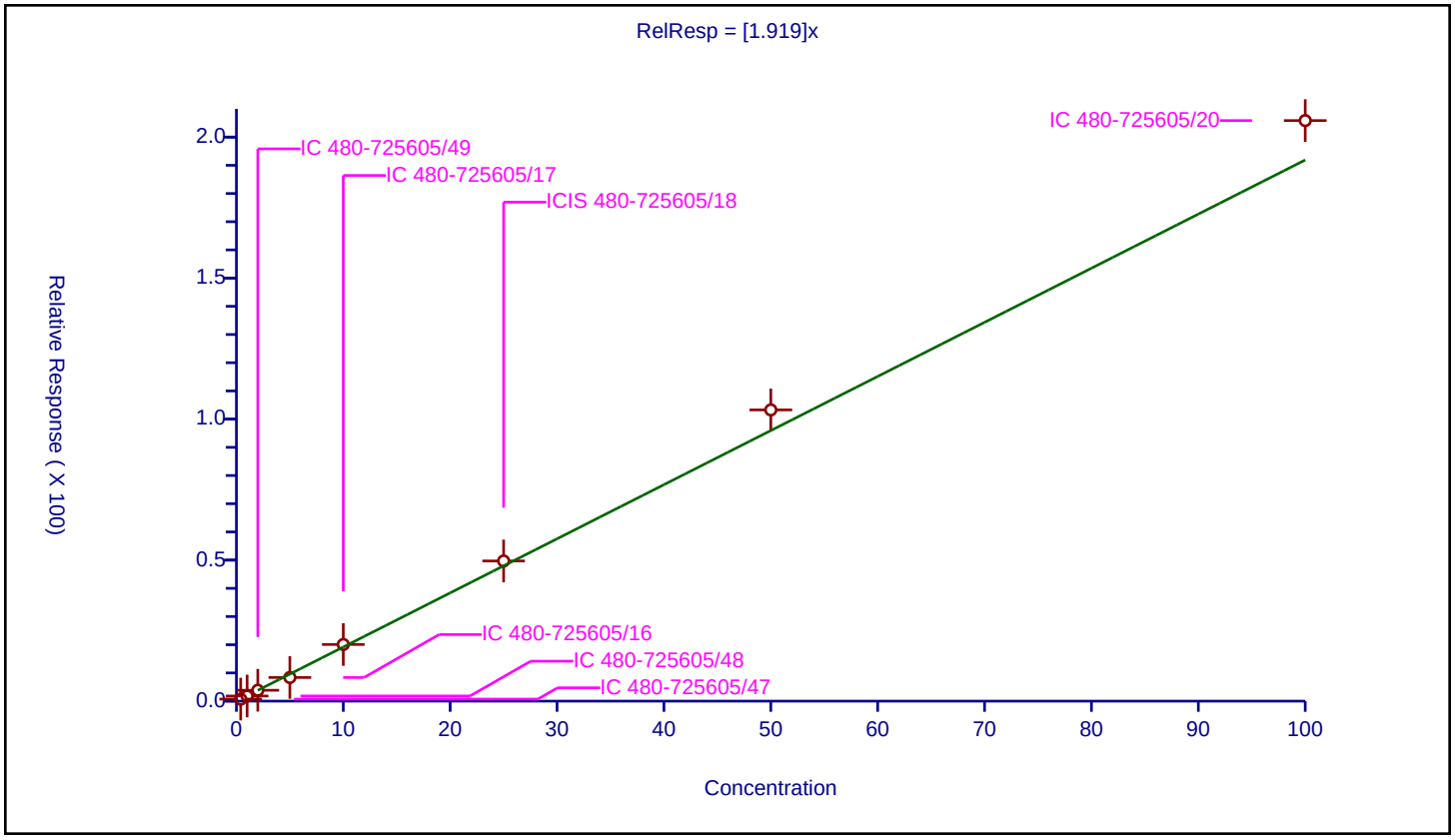
Curve Coefficients

Intercept:	0
Slope:	1.919

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.720563	25.0	433411.0	1.801408	Y
2	IC 480-725605/48	1.0	1.821661	25.0	422897.0	1.821661	Y
3	IC 480-725605/49	2.0	3.861294	25.0	431468.0	1.930647	Y
4	IC 480-725605/16	5.0	8.379318	25.0	406653.0	1.675864	Y
5	IC 480-725605/17	10.0	20.093442	25.0	385372.0	2.009344	Y
6	ICIS 480-725605/18	25.0	49.700145	25.0	363759.0	1.988006	Y
7	IC 480-725605/19	50.0	103.265699	25.0	365986.0	2.065314	Y
8	IC 480-725605/20	100.0	205.853524	25.0	362948.0	2.058535	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

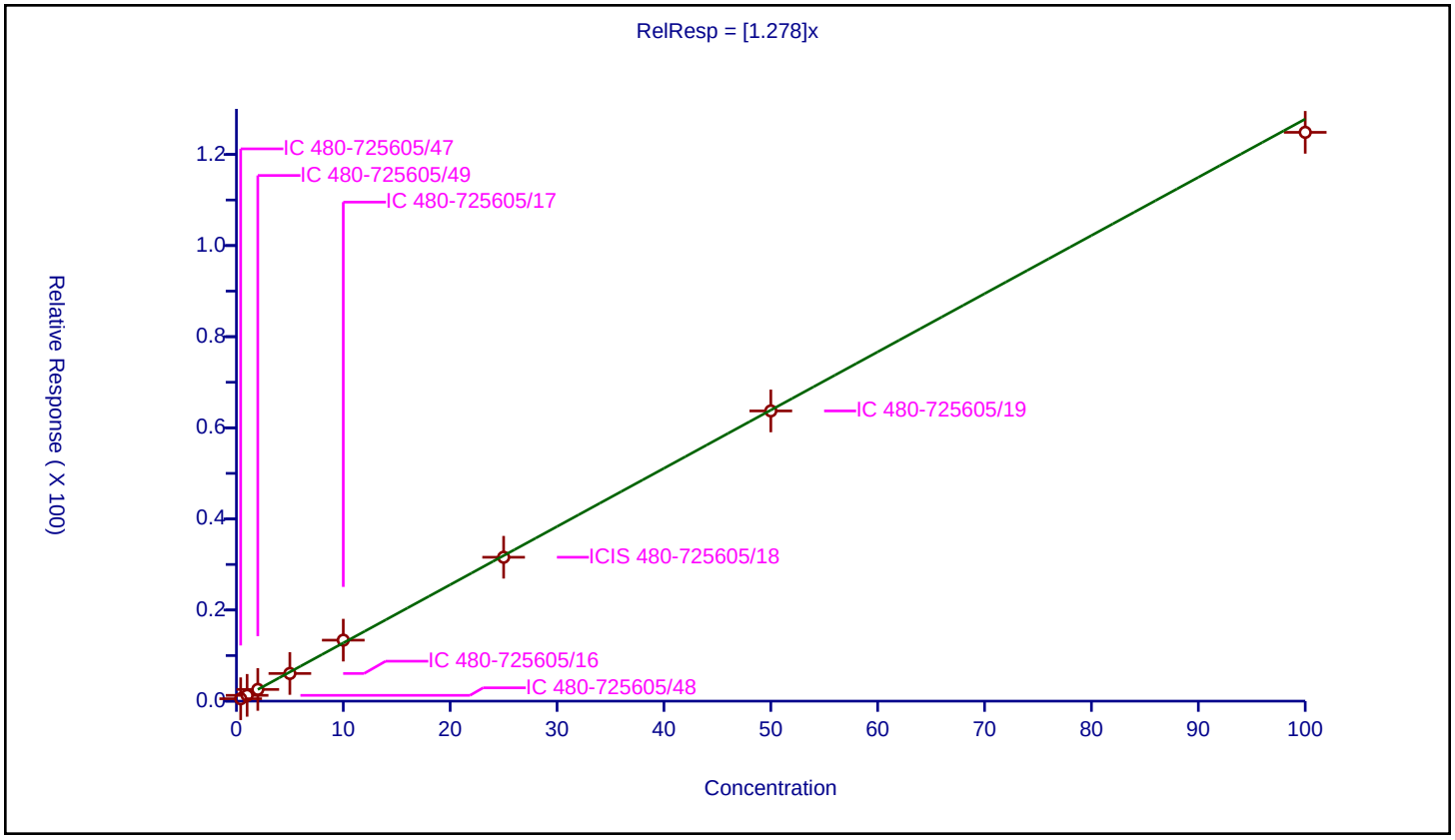
Curve Coefficients

Intercept:	0
Slope:	1.278

Error Coefficients

Relative Standard Deviation:	3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.530328	25.0	433411.0	1.32582	Y
2	IC 480-725605/48	1.0	1.271172	25.0	422897.0	1.271172	Y
3	IC 480-725605/49	2.0	2.57128	25.0	431468.0	1.28564	Y
4	IC 480-725605/16	5.0	6.070163	25.0	406653.0	1.214033	Y
5	IC 480-725605/17	10.0	13.386027	25.0	385372.0	1.338603	Y
6	ICIS 480-725605/18	25.0	31.586229	25.0	363759.0	1.263449	Y
7	IC 480-725605/19	50.0	63.70148	25.0	365986.0	1.27403	Y
8	IC 480-725605/20	100.0	124.853905	25.0	362948.0	1.248539	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

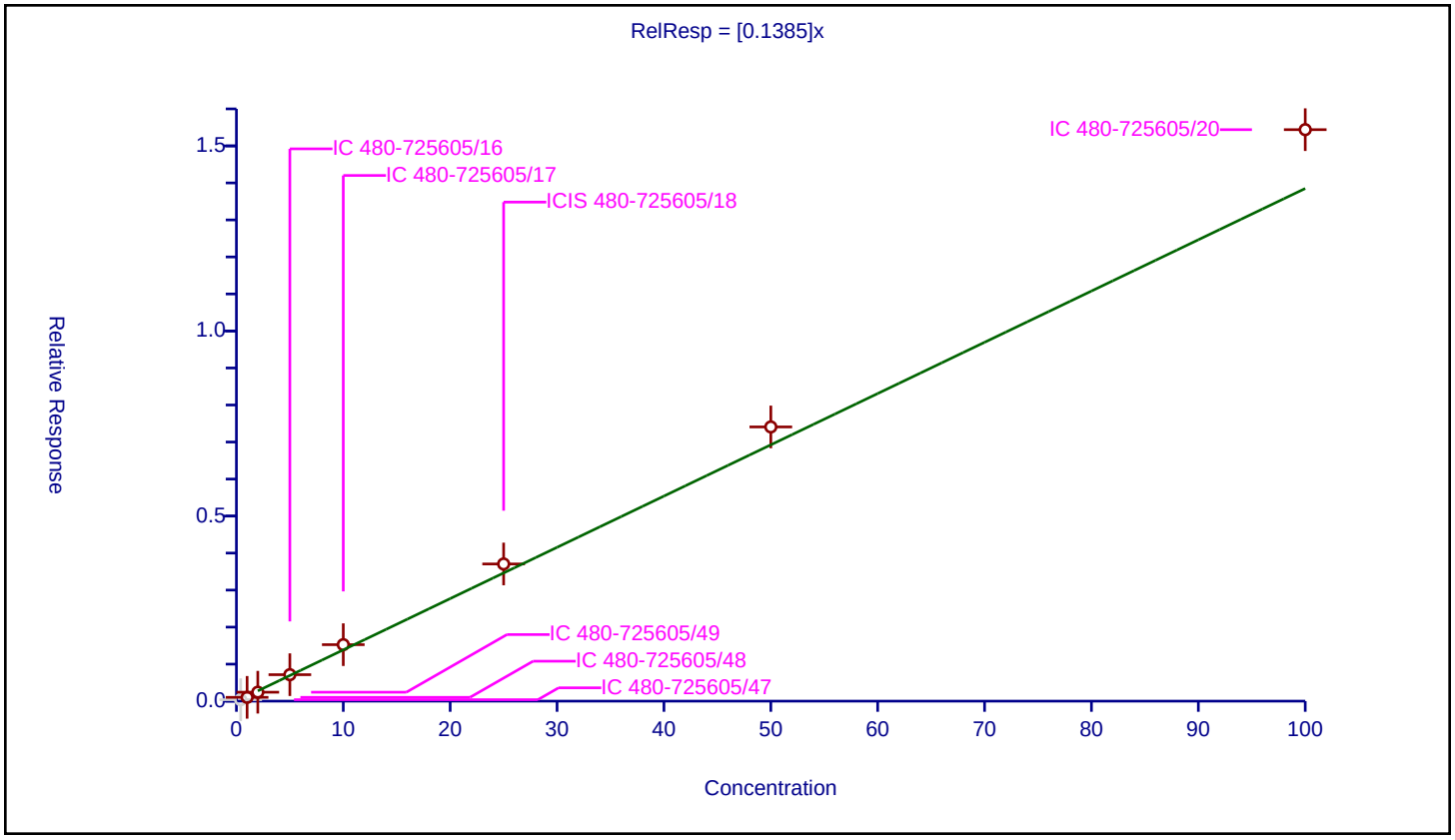
Curve Coefficients

Intercept:	0
Slope:	0.1385

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.039397	25.0	433411.0	0.098492	N
2	IC 480-725605/48	1.0	0.102566	25.0	422897.0	0.102566	Y
3	IC 480-725605/49	2.0	0.241153	25.0	431468.0	0.120577	Y
4	IC 480-725605/16	5.0	0.714676	25.0	406653.0	0.142935	Y
5	IC 480-725605/17	10.0	1.525798	25.0	385372.0	0.15258	Y
6	ICIS 480-725605/18	25.0	3.70575	25.0	363759.0	0.14823	Y
7	IC 480-725605/19	50.0	7.407729	25.0	365986.0	0.148155	Y
8	IC 480-725605/20	100.0	15.438575	25.0	362948.0	0.154386	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

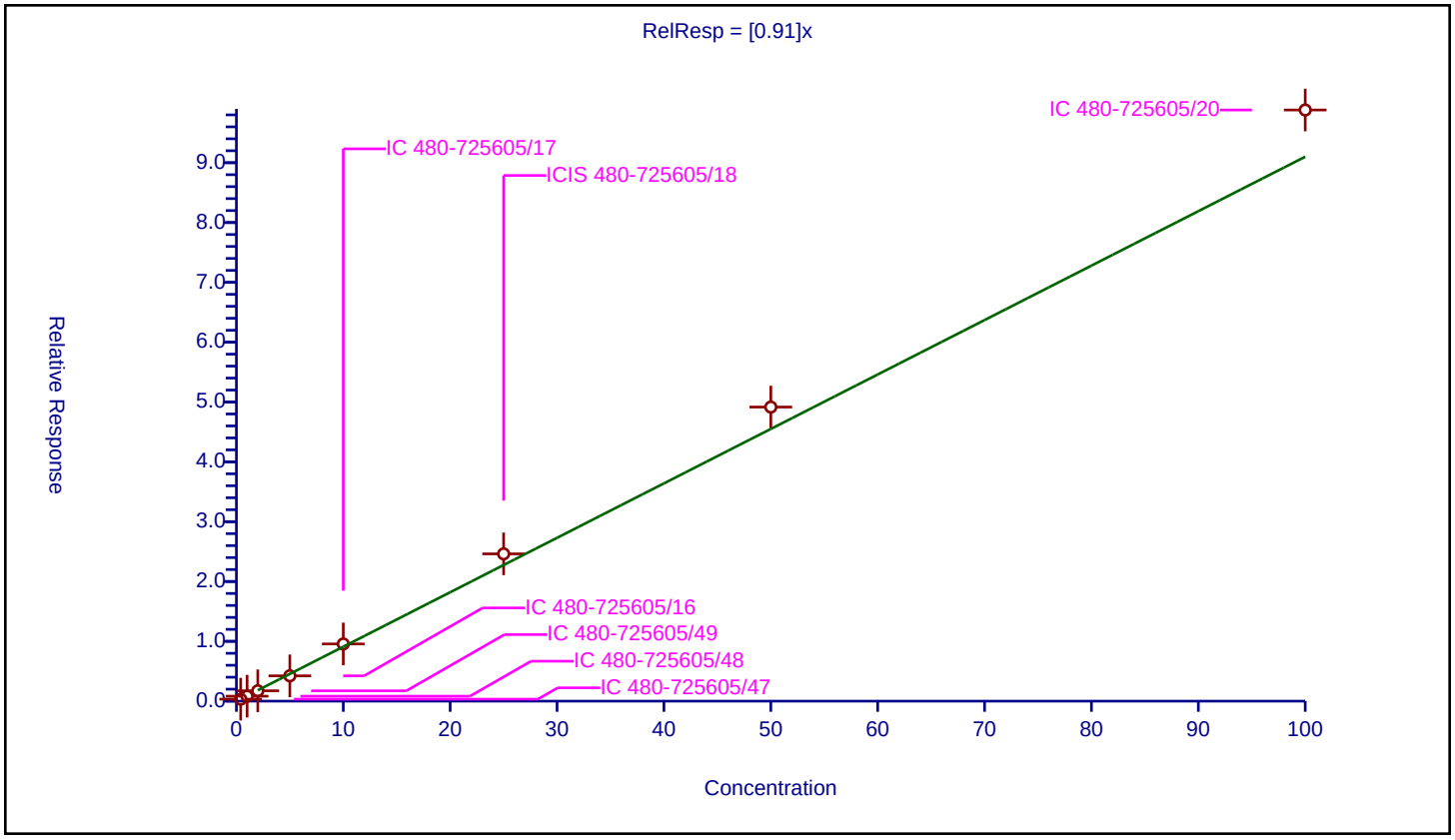
Curve Coefficients

Intercept:	0
Slope:	0.91

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.331671	25.0	433411.0	0.829178	Y
2	IC 480-725605/48	1.0	0.828157	25.0	422897.0	0.828157	Y
3	IC 480-725605/49	2.0	1.72817	25.0	431468.0	0.864085	Y
4	IC 480-725605/16	5.0	4.23297	25.0	406653.0	0.846594	Y
5	IC 480-725605/17	10.0	9.5594	25.0	385372.0	0.95594	Y
6	ICIS 480-725605/18	25.0	24.619666	25.0	363759.0	0.984787	Y
7	IC 480-725605/19	50.0	49.156184	25.0	365986.0	0.983124	Y
8	IC 480-725605/20	100.0	98.81388	25.0	362948.0	0.988139	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

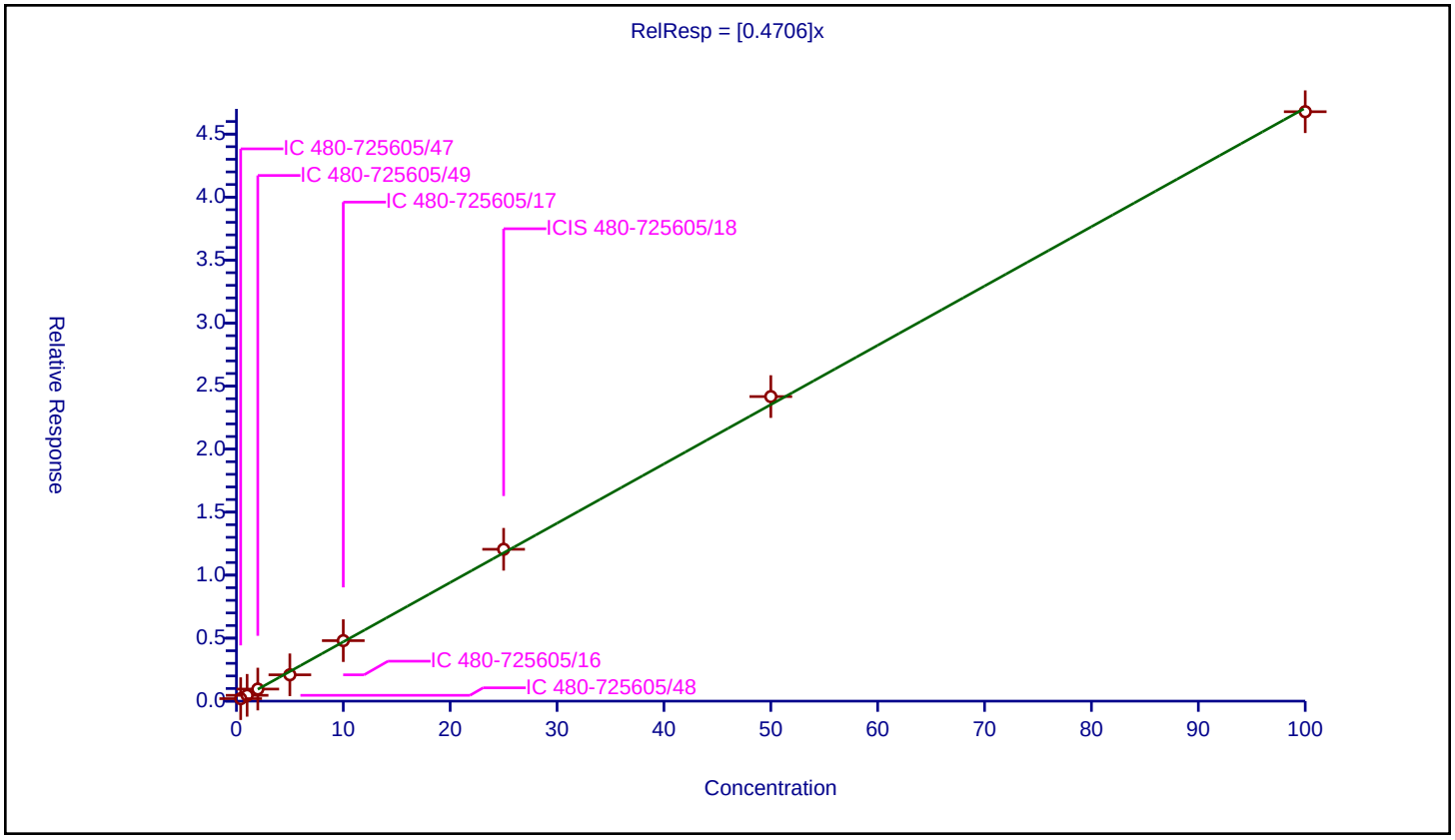
Curve Coefficients

Intercept:	0
Slope:	0.4706

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.197561	25.0	433411.0	0.493902	Y
2	IC 480-725605/48	1.0	0.460928	25.0	422897.0	0.460928	Y
3	IC 480-725605/49	2.0	0.958066	25.0	431468.0	0.479033	Y
4	IC 480-725605/16	5.0	2.089435	25.0	406653.0	0.417887	Y
5	IC 480-725605/17	10.0	4.801205	25.0	385372.0	0.480121	Y
6	ICIS 480-725605/18	25.0	12.051454	25.0	363759.0	0.482058	Y
7	IC 480-725605/19	50.0	24.170187	25.0	365986.0	0.483404	Y
8	IC 480-725605/20	100.0	46.775778	25.0	362948.0	0.467758	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

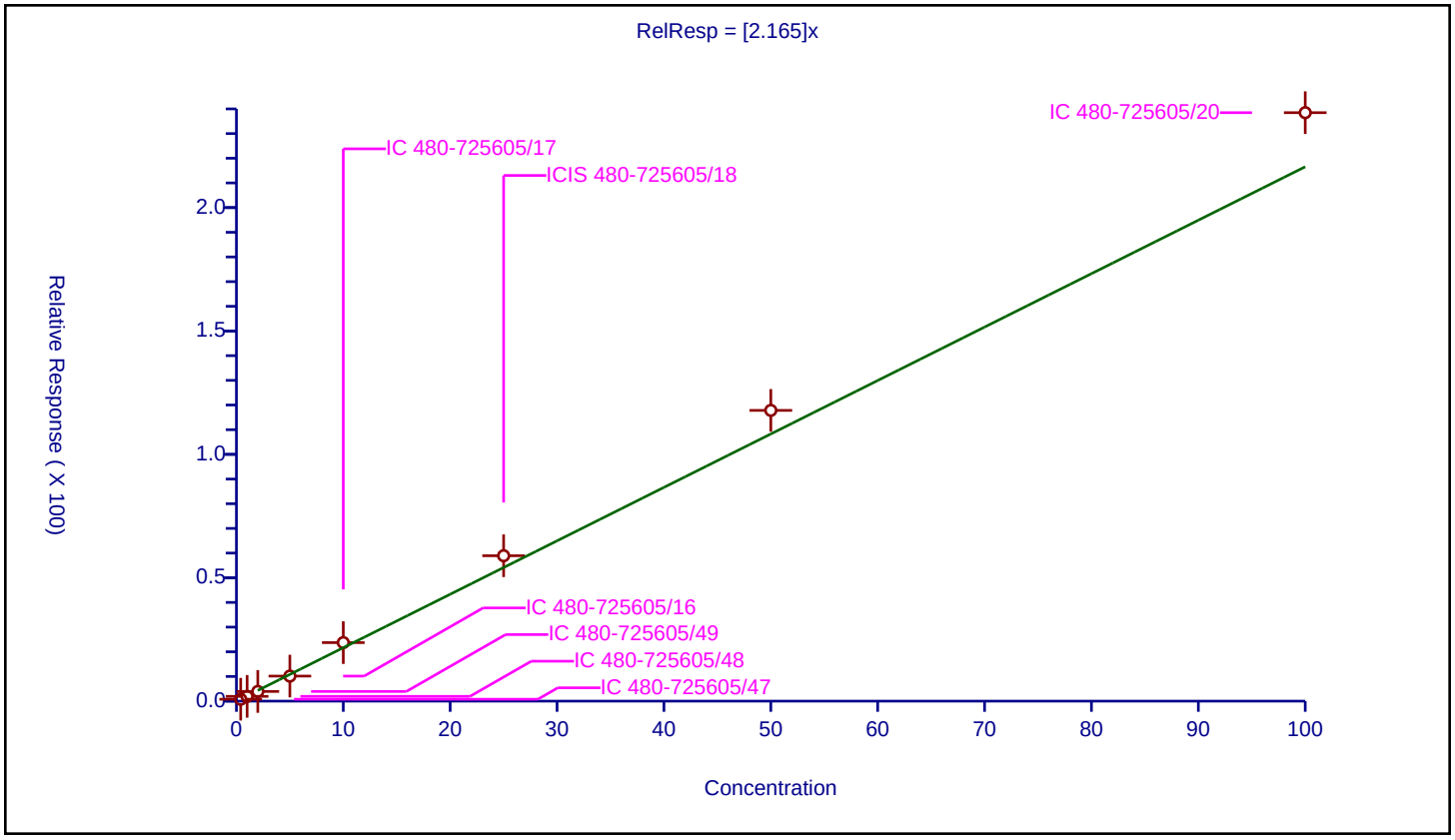
Curve Coefficients

Intercept:	0
Slope:	2.165

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.77115	25.0	433411.0	1.927876	Y
2	IC 480-725605/48	1.0	1.93611	25.0	422897.0	1.93611	Y
3	IC 480-725605/49	2.0	3.9197	25.0	431468.0	1.95985	Y
4	IC 480-725605/16	5.0	10.146181	25.0	406653.0	2.029236	Y
5	IC 480-725605/17	10.0	23.72143	25.0	385372.0	2.372143	Y
6	ICIS 480-725605/18	25.0	58.929332	25.0	363759.0	2.357173	Y
7	IC 480-725605/19	50.0	117.826297	25.0	365986.0	2.356526	Y
8	IC 480-725605/20	100.0	238.472384	25.0	362948.0	2.384724	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

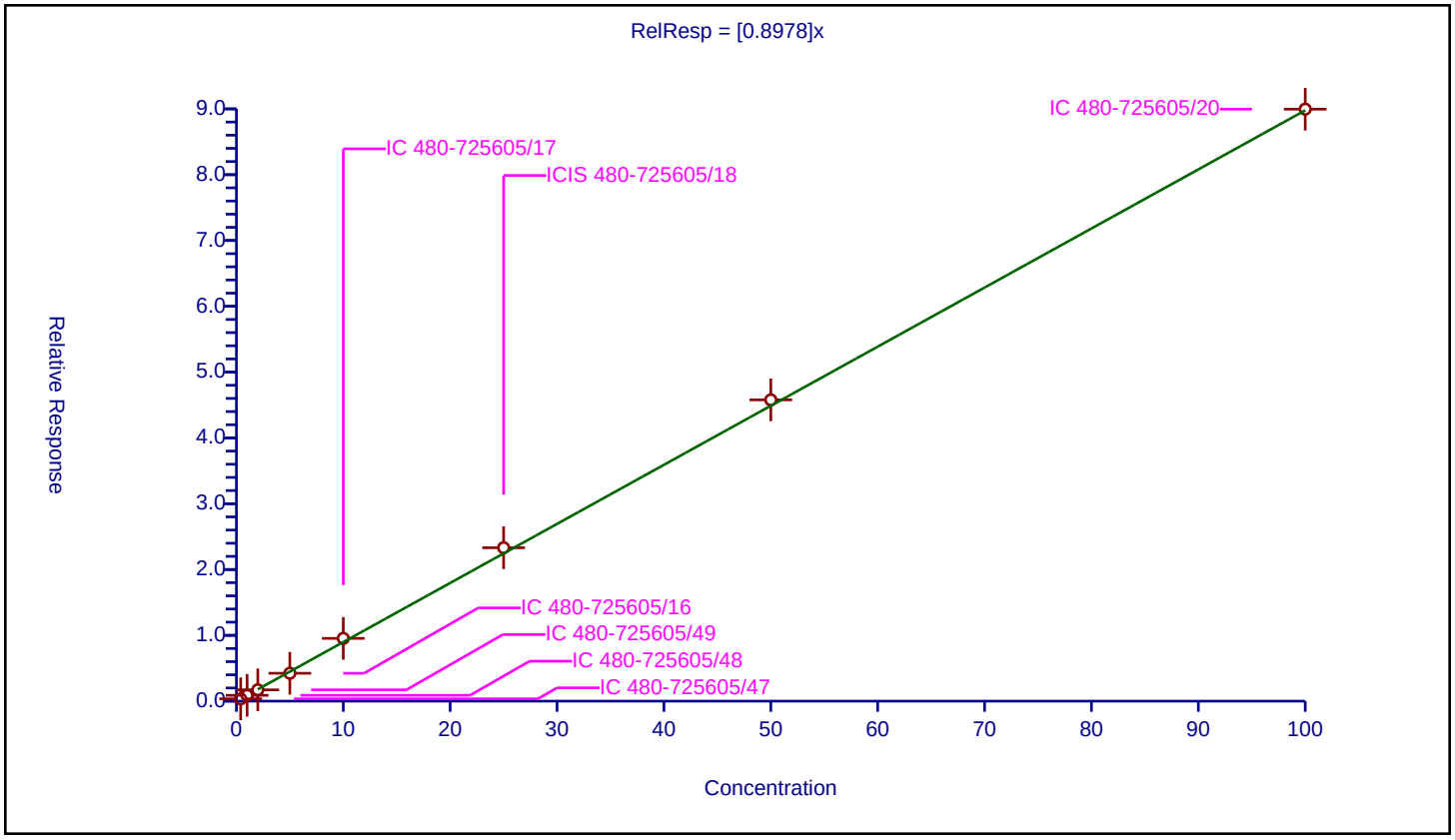
Curve Coefficients

Intercept:	0
Slope:	0.8978

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/47	0.4	0.355898	25.0	433411.0	0.889744	Y
2	IC 480-725605/48	1.0	0.884849	25.0	422897.0	0.884849	Y
3	IC 480-725605/49	2.0	1.718146	25.0	431468.0	0.859073	Y
4	IC 480-725605/16	5.0	4.235429	25.0	406653.0	0.847086	Y
5	IC 480-725605/17	10.0	9.539224	25.0	385372.0	0.953922	Y
6	ICIS 480-725605/18	25.0	23.309389	25.0	363759.0	0.932376	Y
7	IC 480-725605/19	50.0	45.781054	25.0	365986.0	0.915621	Y
8	IC 480-725605/20	100.0	89.955448	25.0	362948.0	0.899554	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 Calibration End Date: 09/19/2024 22:05 Calibration ID: 47316

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/25	D6846.d
Level 2	IC 480-725605/26	D6847.d
Level 3	IC 480-725605/27	D6848.d
Level 4	IC 480-725605/28	D6849.d
Level 5	IC 480-725605/29	D6850.d
Level 6	IC 480-725605/30	D6851.d
Level 7	IC 480-725605/31	D6852.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 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	+++++ 1.8550	1.6493 1.8096	1.5861	1.6036	1.7691	Ave		1.7121				6.6		20.0			
Ethanol	+++++ 0.0155	0.0085 0.0156	0.0124	0.0128	0.0171	Lin1	-0.373	0.0158				11.7			0.9970		0.9900
Isopropyl alcohol	+++++ 0.1182	0.0741 +++++	0.0802	0.0905	0.1181	Lin1	-0.753	0.1167				21.6			0.9920		0.9900
Acetonitrile	0.1224 0.1346	0.1016 0.1425	0.1182	0.1250	0.1327	Ave		0.1253				10.6		20.0			
Isopropyl ether	4.3787 5.2682	4.5415 5.1386	4.6310	4.8406	5.1664	Ave		4.8522				7.2		20.0			
Halothane	+++++ 0.9737	0.8669 0.9069	0.8652	0.9083	0.9184	None											
Chloroprene	+++++ 2.0462	1.4860 1.9433	1.6702	1.7681	1.9702	Ave		1.8140				11.7		20.0			
1,1-Dimethoxyethane	0.1714 0.2454	0.1824 0.2544	0.2105	0.2141	0.2433	Ave		0.2173				14.8		20.0			
Tert-butyl ethyl ether	3.6693 4.0866	3.7130 3.9882	3.8095	3.9352	4.0819	Ave		3.8977				4.4		20.0			
Ethyl acetate	1.6279 1.7445	1.5320 1.8191	1.6672	1.7133	1.8004	Ave		1.7007				5.9		20.0			
Propionitrile	0.2164 0.2501	0.2081 0.2550	0.2332	0.2405	0.2628	Ave		0.2380				8.5		20.0			
Methacrylonitrile	1.2284 1.1013	1.1976 1.0788	1.1641	1.1803	1.1774	Ave		1.1611				4.6		20.0			
Isooctane	+++++ 4.5004	3.7036 4.2962	3.8189	3.9361	4.3634	Ave		4.1031				7.9		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 VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 Calibration End Date: 09/19/2024 22:05 Calibration ID: 47316

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 4	LVL 5		B	M1	M2								
t-Amyl alcohol	0.0890 0.1438	0.0971 0.1536	0.1400	0.1311	0.1463	Lin1	-0.376	0.1495				12.0			0.9980		0.9900
Tert-amyl methyl ether	3.6053 3.8743	3.4407 3.8586	3.5933	3.7077	3.9323	Ave		3.7160				4.9		20.0			
1,4-Difluorobenzene	2.4093 3.2670	2.8910 3.1937	2.9315	3.0884	3.2090	Ave		2.9986				9.9		20.0			
n-Butanol	+++++ 0.0423	0.0093 0.0459	0.0227	0.0301	0.0414	Ave		0.0319				44.1	*	20.0			
Ethyl acrylate	+++++ 4.3526	3.5673 4.1618	3.8212	4.1324	4.2231	Ave		4.0431				7.2		20.0			
Methyl methacrylate	1.2094 1.3833	1.2877 1.4457	1.3190	1.4304	1.4494	Ave		1.3607				6.7		20.0			
2-Nitropropane	0.1756 0.2000	0.1566 0.2188	0.1687	0.1814	0.1905	Ave		0.1845				11.2		20.0			
Epichlorohydrin	+++++ 0.1574	0.1209 0.1680	0.1511	0.1550	0.1642	Ave		0.1527				11.0		20.0			
2-Methylthiophene	+++++ 1.7824	1.4568 1.7501	1.5246	1.6437	1.6683	Ave		1.6376				7.7		20.0			
3-Methylthiophene	+++++ 1.8209	1.4263 1.8437	1.6742	1.7866	1.8152	Ave		1.7278				9.2		20.0			
n-Butyl acetate	1.1242 1.3508	1.0538 1.3742	1.2383	1.2804	1.4098	Ave		1.2617			0.1000	10.5		20.0			
1-Chlorohexane	1.6372 0.5819	1.0246 0.5697	0.5867	0.5816	0.5740	Lin1	0.4156	0.5639				6.9			0.9990		0.9900
3-Chlorobenzotrifluoride	+++++ 0.7910	0.6397 0.7834	0.6655	0.7107	0.7405	Ave		0.7218				8.5		20.0			
4-Chlorobenzotrifluoride	+++++ 0.7071	0.6218 0.6957	0.6267	0.6755	0.6814	Ave		0.6680				5.3		20.0			
2-Chlorobenzotrifluoride	+++++ 0.8116	0.6847 0.8104	0.6935	0.7403	0.7699	Ave		0.7517				7.4		20.0			
Cyclohexanone	+++++ 0.0257	0.0223 0.0264	0.0219	0.0226	0.0256	Ave		0.0241				8.4		20.0			
3-Chlorotoluene	+++++ 0.6033	0.5091 0.6232	0.5247	0.5838	0.6026	Ave		0.5744				8.1		20.0			
Pentachloroethane	0.2891 0.3671	0.2805 0.3718	0.3148	0.3406	0.3602	Ave		0.3320				11.3		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
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 Calibration End Date: 09/19/2024 22:05 Calibration ID: 47316

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 4	LVL 5		B	M1	M2								
Dicyclopentadiene	2.7767 2.6951	2.4379 2.6497	2.1907	2.3589	2.5386	Ave		2.5211				8.2		20.0			
1,2,3-Trimethylbenzene	1.6434 2.1478	1.7505 2.1050	1.9107	2.0211	2.0900	Ave		1.9526				9.9		20.0			
Benzyl chloride	0.8959 1.1522	0.9517 1.1815	0.9937	1.0569	1.1401	Ave		1.0532				10.4		20.0			
1,3,5-Trichlorobenzene	0.7026 1.0299	0.7855 1.0037	0.8750	0.9330	0.9704	Ave		0.9000				13.3		20.0			
2-Methylnaphthalene	+++++ 1.4150	0.7903 1.3935	1.0470	1.2243	1.3731	Lin1	-0.854	1.4022				11.4			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 VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 | Calibration End Date: 09/19/2024 22:05 | Calibration ID: 47316

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/25	D6846.d
Level 2	IC 480-725605/26	D6847.d
Level 3	IC 480-725605/27	D6848.d
Level 4	IC 480-725605/28	D6849.d
Level 5	IC 480-725605/29	D6850.d
Level 6	IC 480-725605/30	D6851.d
Level 7	IC 480-725605/31	D6852.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	+++++ 625957	12205 1220539	58296	117456	307476	+++++ 50.0	1.00 100	5.00	10.0	25.0
Ethanol	FB	Lin1	+++++ 209543	2519 419573	18235	37431	118880	+++++ 2000	40.0 4000	200	400	1000
Isopropyl alcohol	FB	Lin1	+++++ 398905	5487 +++++	29461	66284	205323	+++++ 500	10.0 +++++	50.0	100	250
Acetonitrile	FB	Ave	3711 454229	7518 961199	43426	91576	230708	4.00 500	10.0 1000	50.0	100	250
Isopropyl ether	FB	Ave	13271 1777733	33607 3465859	170211	354549	897959	0.400 50.0	1.00 100	5.00	10.0	25.0
Halothane	FB	None	+++++ 328588	6415 611660	31799	66531	159618	+++++ 50.0	1.00 100	5.00	10.0	25.0
Chloroprene	FB	Ave	+++++ 690477	10996 1310680	61386	129507	342432	+++++ 50.0	1.00 100	5.00	10.0	25.0
1,1-Dimethoxyethane	FB	Ave	2597 413989	6747 857963	38677	78398	211469	2.00 250	5.00 500	25.0	50.0	125
Tert-butyl ethyl ether	FB	Ave	11121 1379003	27476 2689935	140015	288236	709453	0.400 50.0	1.00 100	5.00	10.0	25.0
Ethyl acetate	FB	Ave	9868 1177376	22673 2453880	122558	250989	625852	0.800 100	2.00 200	10.0	20.0	50.0
Propionitrile	FB	Ave	6558 843888	15397 1719744	85703	176141	456717	4.00 500	10.0 1000	50.0	100	250
Methacrylonitrile	FB	Ave	37232 3716449	88618 7275930	427846	864532	2046456	4.00 500	10.0 1000	50.0	100	250
Isooctane	FB	Ave	+++++ 1518633	27406 2897636	140361	288300	758384	+++++ 50.0	1.00 100	5.00	10.0	25.0
t-Amyl alcohol	FB	Lin1	2698 485163	7189 1035907	51464	96019	254201	4.00 500	10.0 1000	50.0	100	250
Tert-amyl methyl ether	FB	Ave	10927 1307381	25461 2602519	132070	271574	683465	0.400 50.0	1.00 100	5.00	10.0	25.0
1,4-Difluorobenzene	FB	Ave	7302	21393	107745	226213	557751	0.400	1.00	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 | Calibration End Date: 09/19/2024 22:05 | Calibration ID: 47316

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
			1102430	2154063				50.0	100			
n-Butanol	FB	Ave	+++++ 356750	1727 773888	20816	55097	179752	+++++ 1250	25.0 2500	125	250	625
Ethyl acrylate	FB	Ave	+++++ 1468777	26398 2807008	140445	302678	733994	+++++ 50.0	1.00 100	5.00	10.0	25.0
Methyl methacrylate	FB	Ave	7331 933574	19058 1950111	96960	209544	503834	0.800 100	2.00 200	10.0	20.0	50.0
2-Nitropropane	DCBd4	Ave	2417 298976	5348 650934	28317	60976	151901	0.800 100	2.00 200	10.0	20.0	50.0
Epichlorohydrin	FB	Ave	+++++ 530987	8944 1133351	55521	113532	285354	+++++ 500	10.0 1000	50.0	100	250
2-Methylthiophene	DCBd4	Ave	+++++ 1331946	24871 2603702	127972	276253	665285	+++++ 50.0	1.00 100	5.00	10.0	25.0
3-Methylthiophene	DCBd4	Ave	+++++ 1360724	24351 2742983	140531	300279	723861	+++++ 50.0	1.00 100	5.00	10.0	25.0
n-Butyl acetate	CBNZd5	Ave	6586 918833	15352 1858697	89188	189046	484082	0.400 50.0	1.00 100	5.00	10.0	25.0
1-Chlorohexane	CBNZd5	Lin1	9591 395792	14926 770537	42260	85876	197100	0.400 50.0	1.00 100	5.00	10.0	25.0
3-Chlorobenzotrifluoride	DCBd4	Ave	+++++ 591066	10921 1165424	55865	119447	295296	+++++ 50.0	1.00 100	5.00	10.0	25.0
4-Chlorobenzotrifluoride	DCBd4	Ave	+++++ 528357	10615 1034985	52603	113526	271733	+++++ 50.0	1.00 100	5.00	10.0	25.0
2-Chlorobenzotrifluoride	DCBd4	Ave	+++++ 606470	11690 1205719	58210	124418	307038	+++++ 50.0	1.00 100	5.00	10.0	25.0
Cyclohexanone	DCBd4	Ave	+++++ 192006	3807 393333	18360	37980	102062	+++++ 500	10.0 1000	50.0	100	250
3-Chlorotoluene	DCBd4	Ave	+++++ 450790	8691 927133	44039	98125	240311	+++++ 50.0	1.00 100	5.00	10.0	25.0
Pentachloroethane	DCBd4	Ave	1990 274319	4789 553184	26424	57240	143635	0.400 50.0	1.00 100	5.00	10.0	25.0
Dicyclopentadiene	DCBd4	Ave	19111 2013970	41621 3942120	183889	396465	1012361	0.400 50.0	1.00 100	5.00	10.0	25.0
1,2,3-Trimethylbenzene	DCBd4	Ave	11311 1605010	29886 3131628	160385	339685	833440	0.400 50.0	1.00 100	5.00	10.0	25.0
Benzyl chloride	DCBd4	Ave	6166 861016	16248 1757831	83414	177641	454657	0.400 50.0	1.00 100	5.00	10.0	25.0
1,3,5-Trichlorobenzene	DCBd4	Ave	4836 769635	13411 1493229	73448	156807	386966	0.400 50.0	1.00 100	5.00	10.0	25.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 | Calibration End Date: 09/19/2024 22:05 | Calibration ID: 47316

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCBd4	Lin1	+++++ 1057374	13492 2073115	87883	205763	547566	+++++ 50.0	1.00 100	5.00	10.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
None = No Calib Curve

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1 | Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D | GC Column: ZB-624 (20) ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 | Calibration End Date: 09/19/2024 22:05 | Calibration ID: 47316

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-725605/25	D6846.d
Level 2	IC 480-725605/26	D6847.d
Level 3	IC 480-725605/27	D6848.d
Level 4	IC 480-725605/28	D6849.d
Level 5	IC 480-725605/29	D6850.d
Level 6	IC 480-725605/30	D6851.d
Level 7	IC 480-725605/31	D6852.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	+++++	-3.7						30				
Ethanol	+++++	13.1						30				
Isopropyl alcohol	+++++ +++++	28.0						30				
Acetonitrile	-2.3						30					
Isopropyl ether	-9.8						30					
Chloroprene	+++++	-18.1						30				
1,1-Dimethoxyethane	-21.1						30					
Tert-butyl ethyl ether	-5.9						30					
Ethyl acetate	-4.3						30					
Propionitrile	-9.1						30					
Methacrylonitrile	5.8						30					
Isooctane	+++++	-9.7						30				
t-Amyl alcohol	22.4						30					
Tert-amyl methyl ether	-3.0						30					
1,4-Difluorobenzene	-19.7						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 Analy Batch No.: 725605

SDG No.:

Instrument ID: HP5975D GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2024 19:52 Calibration End Date: 09/19/2024 22:05 Calibration ID: 47316

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
n-Butanol	+++++	-70.8 *						30				
Ethyl acrylate	+++++	-11.8						30				
Methyl methacrylate	-11.1						30					
2-Nitropropane	-4.8						30					
Epichlorohydrin	+++++	-20.9						30				
2-Methylthiophene	+++++	-11.0						30				
3-Methylthiophene	+++++	-17.5						30				
n-Butyl acetate	-10.9						30					
1-Chlorohexane	6.1						30					
3-Chlorobenzotrifluoride	+++++	-11.4						30				
4-Chlorobenzotrifluoride	+++++	-6.9						30				
2-Chlorobenzotrifluoride	+++++	-8.9						30				
Cyclohexanone	+++++	-7.4						30				
3-Chlorotoluene	+++++	-11.4						30				
Pentachloroethane	-12.9						30					
Dicyclopentadiene	10.1						30					
1,2,3-Trimethylbenzene	-15.8						30					
Benzyl chloride	-14.9						30					
1,3,5-Trichlorobenzene	-21.9						30					
2-Methylnaphthalene	+++++	17.3						30				

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Lims ID: IC 8
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Sep-2024 19:52:30 ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 8
Misc. Info.: 480-0120124-025
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:49:54 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:24:56

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	4.748	4.748	0.000	98	189426	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.102	-0.001	92	366143	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	9.004	-0.001	95	430168	25.0	25.0	
11 Chlorodifluoromethane	51	1.145	1.139	0.006	93	3792	0.4000	0.2923	
141 Ethanol	45	2.163	2.164	-0.001	0	2006	16.0	40.5	M
19 Propene oxide	58	2.236	2.231	0.005	92	5461	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	95	1805	4.00	8.49	
29 Acetonitrile	40	2.761	2.737	0.024	0	3711	4.00	3.91	M
36 Isopropyl ether	45	3.413	3.413	0.000	96	13271	0.4000	0.3610	
132 Halothane	117	3.431	3.432	-0.001	72	1524	0.4000	0.2011	
40 2-Chloro-1,3-butadiene	53	3.456	3.450	0.006	0	3647	0.4000	0.2653	M
38 1,1-Dimethoxyethane	75	3.480	3.474	0.006	99	2597	2.00	1.58	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	97	11121	0.4000	0.3766	
42 Ethyl acetate	43	3.950	3.932	0.018	96	9868	0.8000	0.7658	
46 Propionitrile	54	4.004	3.980	0.024	91	6558	4.00	3.64	
47 Methacrylonitrile	41	4.084	4.078	0.006	97	37232	4.00	4.23	
146 Isooctane	57	4.523	4.529	-0.006	58	8279	0.4000	0.2663	
140 t-Amyl alcohol	59	4.590	4.584	0.006	63	2698	4.00	4.90	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	87	10927	0.4000	0.3881	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	0	7302	0.4000	0.3214	M
154 2,4,4-Trimethyl-1-pentene	55	4.931	4.931	0.000	0	1869	NC	NC	M
60 n-Butanol	56		5.041				ND	ND	MU
145 Ethyl acrylate	55	5.132	5.120	0.012	92	8307	0.4000	0.2712	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	95	3570	NC	NC	
63 Methyl methacrylate	41	5.303	5.291	0.012	90	7331	0.8000	0.7110	
70 2-Nitropropane	43	5.644	5.639	0.005	97	2417	0.8000	0.7613	
71 Epichlorohydrin	57	5.754	5.736	0.018	0	3261	4.00	2.82	M
76 2-Methylthiophene	97	6.114	6.114	0.000	95	8223	0.4000	0.2918	
78 3-Methylthiophene	97	6.242	6.242	0.000	96	9789	0.4000	0.3293	
155 n-Butyl acetate	43	6.632	6.614	0.018	0	6586	0.4000	0.3564	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.101	7.077	0.024	72	9591	0.4000	0.4243	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	86	3252	0.4000	0.2618	
86 4-Chlorobenzotrifluoride	180	7.138	7.132	0.006	86	3478	0.4000	0.3026	
93 2-Chlorobenzotrifluoride	180	7.839	7.833	0.006	94	3802	0.4000	0.2939	
96 Cyclohexanone	55	8.052	8.034	0.018	0	2278	4.00	5.50	M
104 3-Chlorotoluene	126	8.382	8.376	0.006	93	2861	0.4000	0.2895	
108 Pentachloroethane	167	8.699	8.699	0.000	86	1990	0.4000	0.3483	
114 Dicyclopentadiene	66	9.010	9.010	0.000	66	19111	0.4000	0.4406	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	0	11311	0.4000	0.3367	M
143 Benzyl chloride	91	9.156	9.150	0.006	95	6166	0.4000	0.3403	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	95	4836	0.4000	0.3123	
142 2-Methylnaphthalene	142	11.783	11.778	0.005	89	5792	0.4000	0.8491	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

ADD CORP mix_00149	Amount Added:	0.40	Units: uL
2 MTP 2019_00064	Amount Added:	0.40	Units: uL
3 MTP 2019_00064	Amount Added:	0.40	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	0.40	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

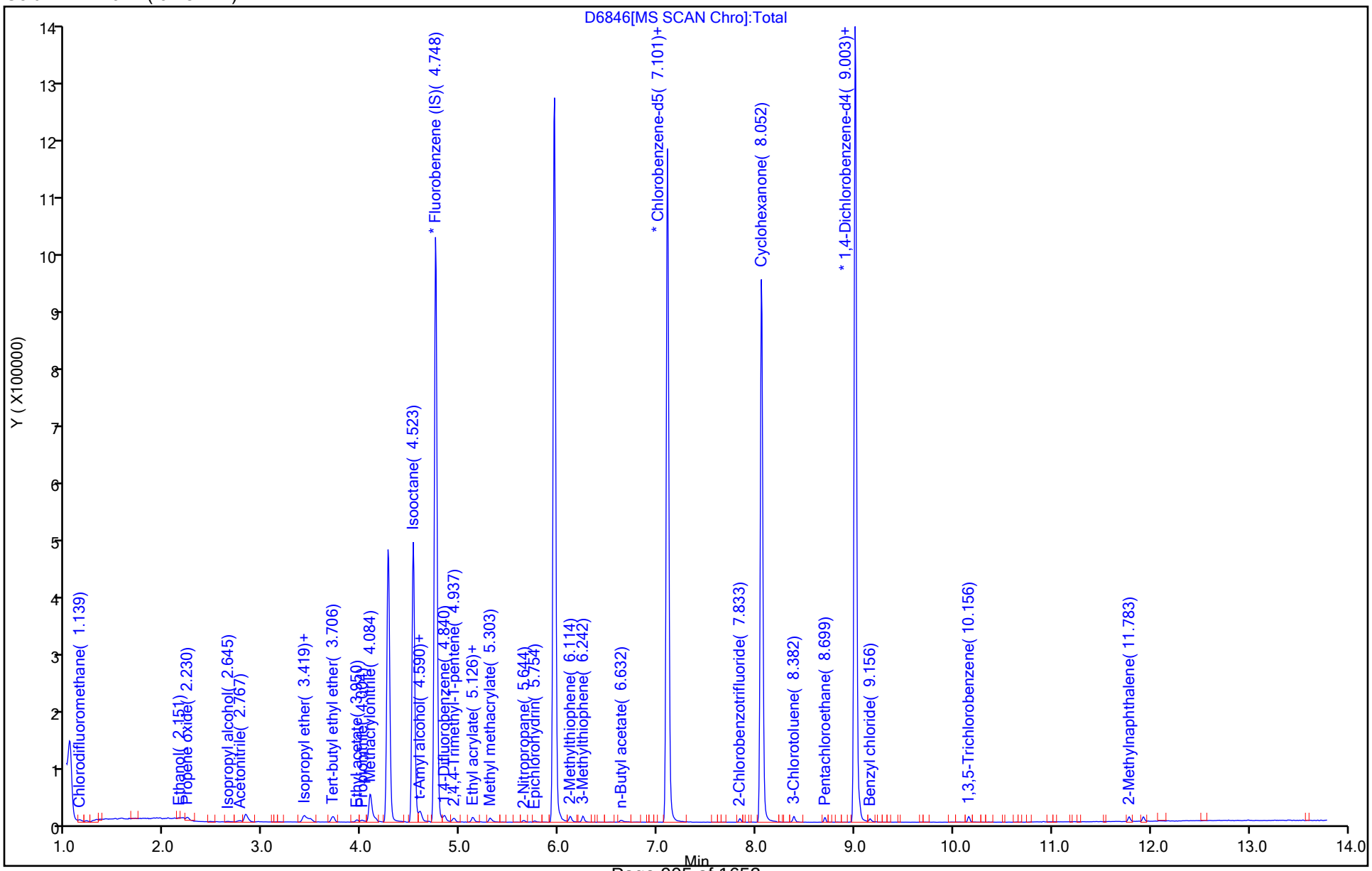
Report Date: 20-Sep-2024 11:49:55 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d

Injection Date:	19-Sep-2024 19:52:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 8			Worklist Smp#:	25
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	34
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

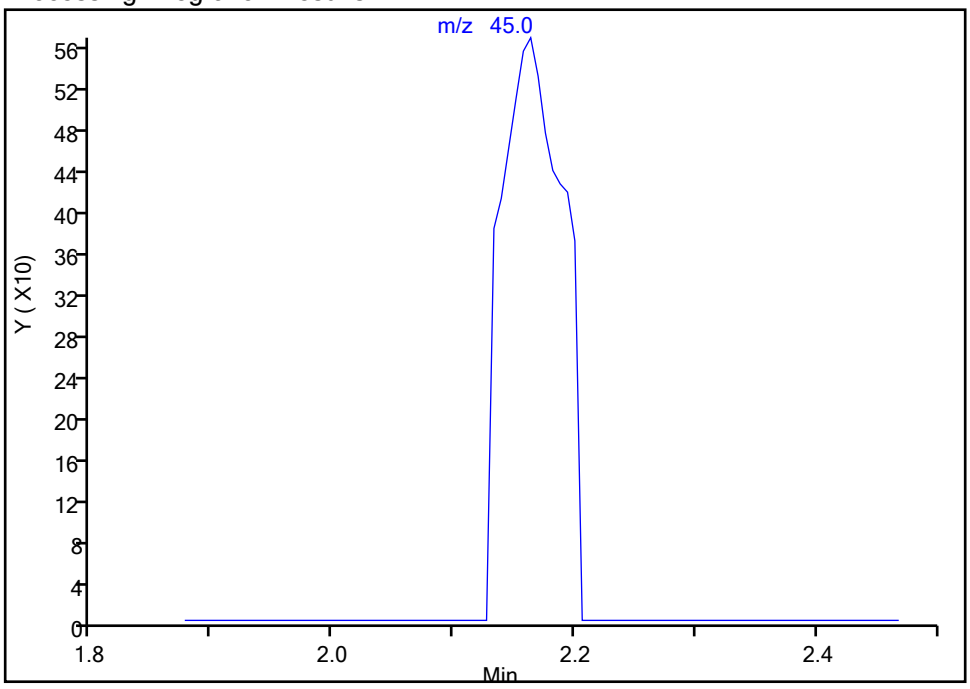
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

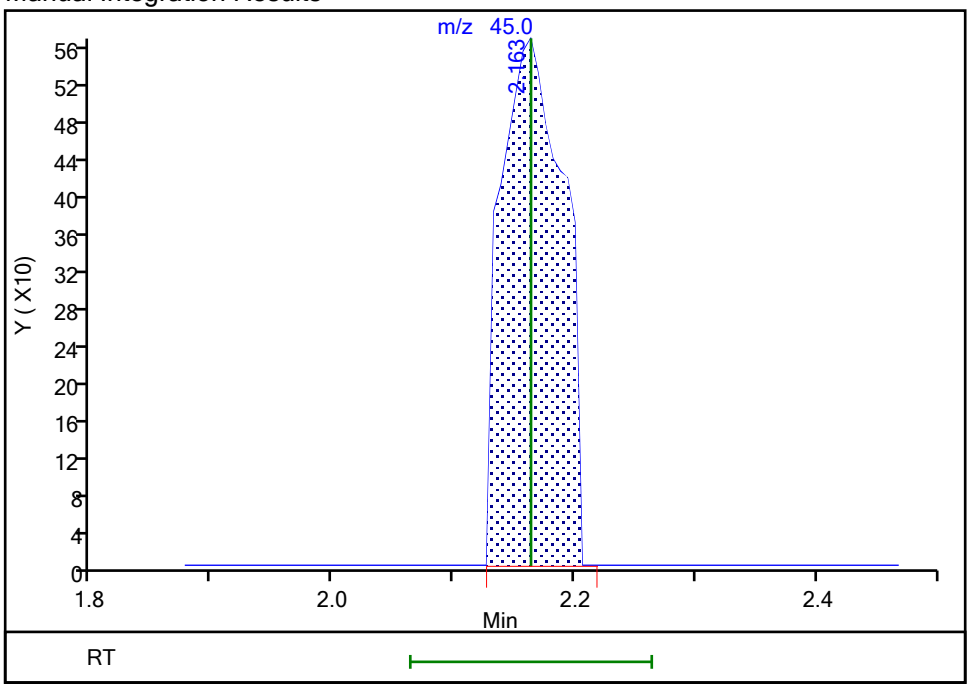
Not Detected
Expected RT: 2.16

Processing Integration Results



Manual Integration Results

RT: 2.16
Area: 2006
Amount: 40.453132
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:22:59 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

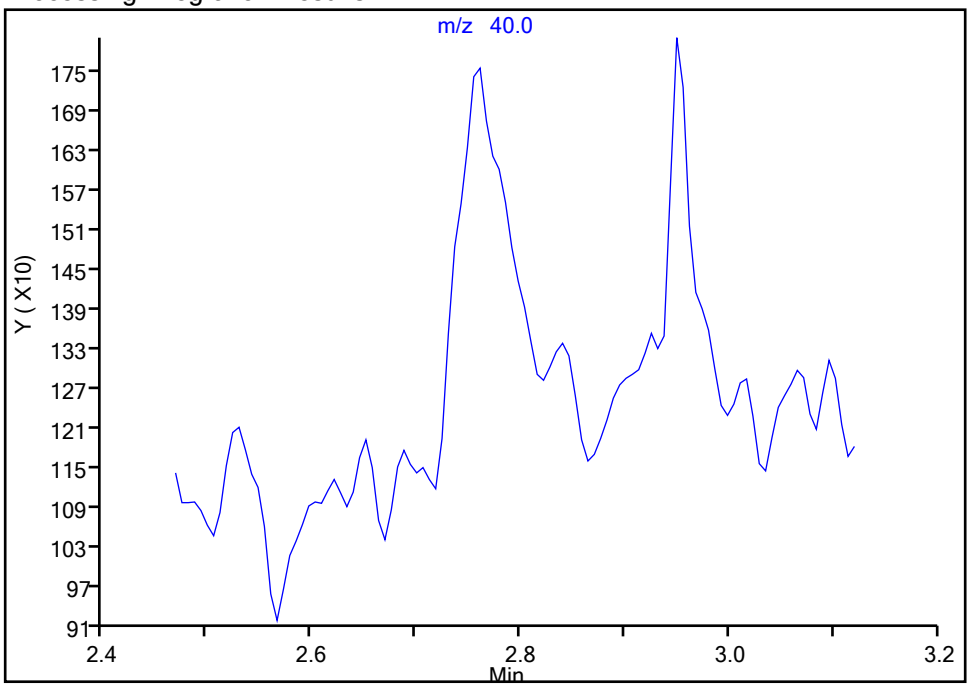
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

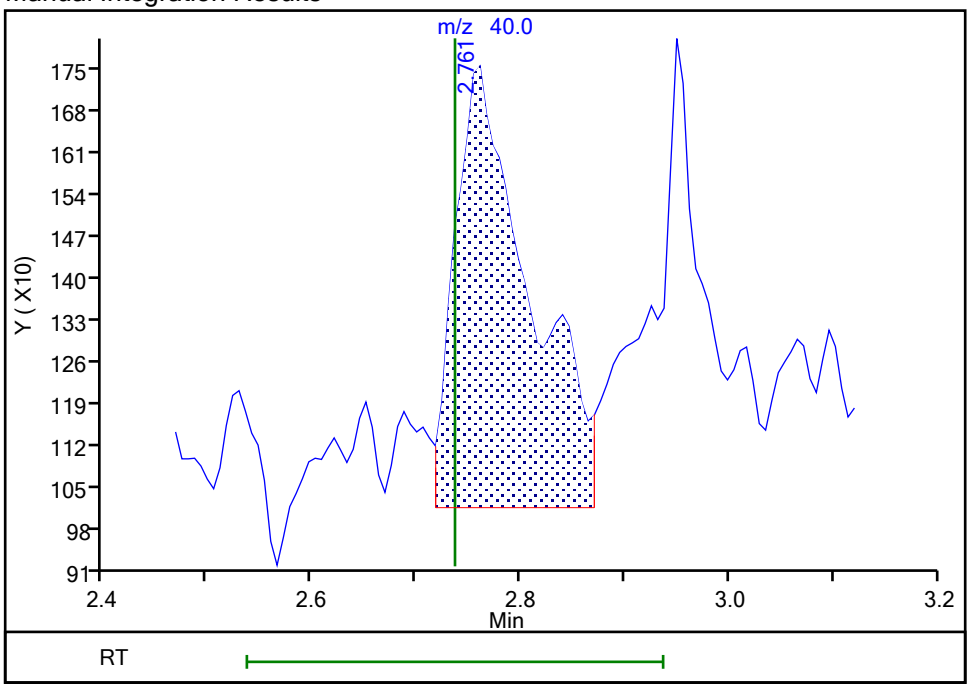
Not Detected
Expected RT: 2.74

Processing Integration Results



Manual Integration Results

RT: 2.76
Area: 3711
Amount: 3.908888
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:23:10 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

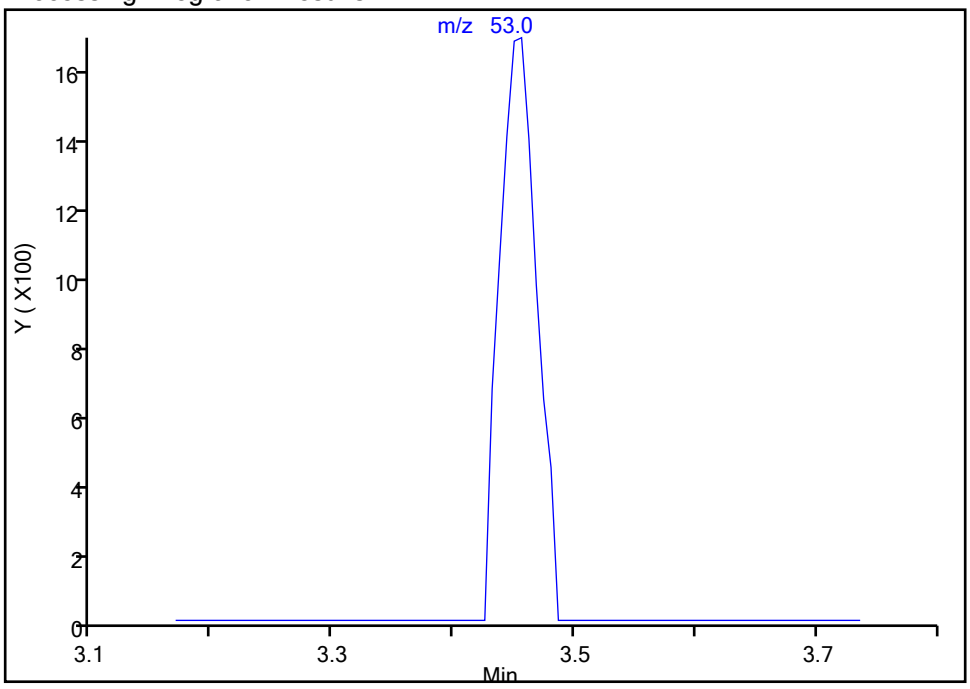
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

40 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

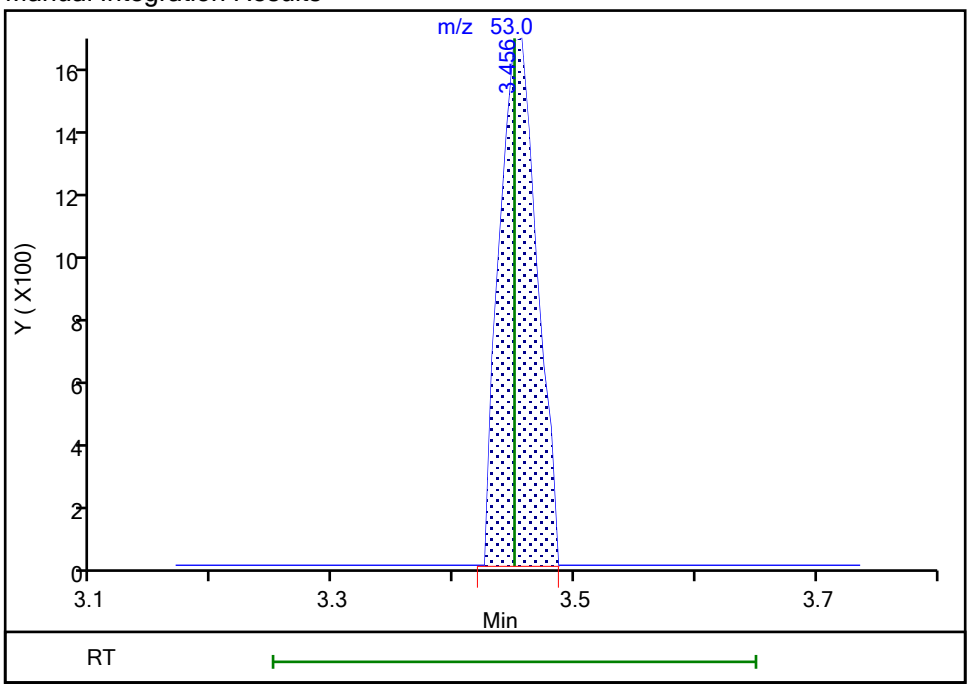
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 3647
Amount: 0.265340
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:23:18 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

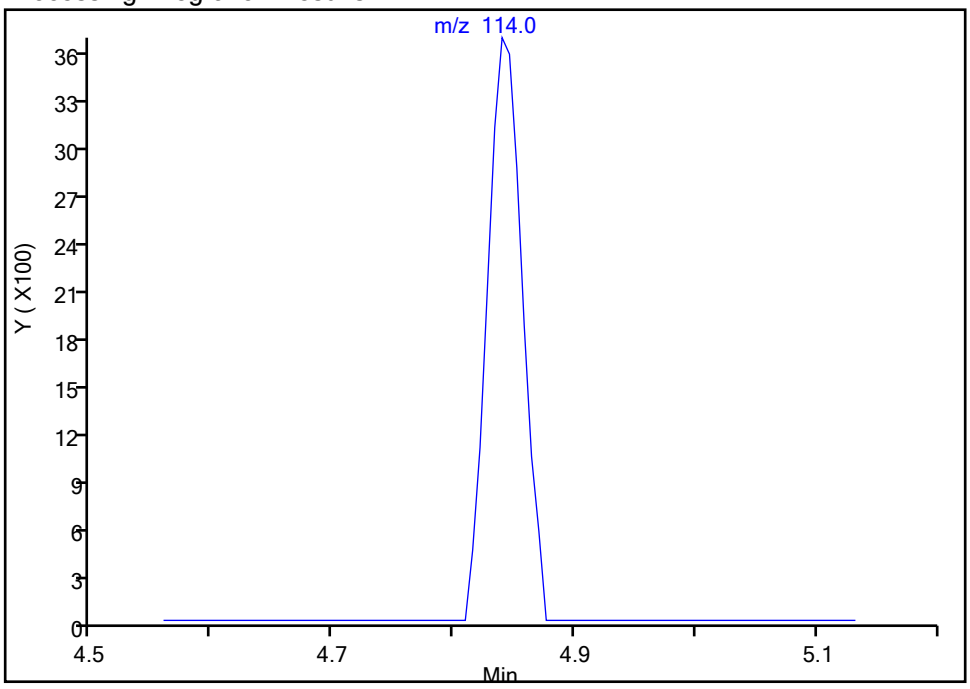
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Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

1 1,4-Difluorobenzene, CAS: 540-36-3

Signal: 1

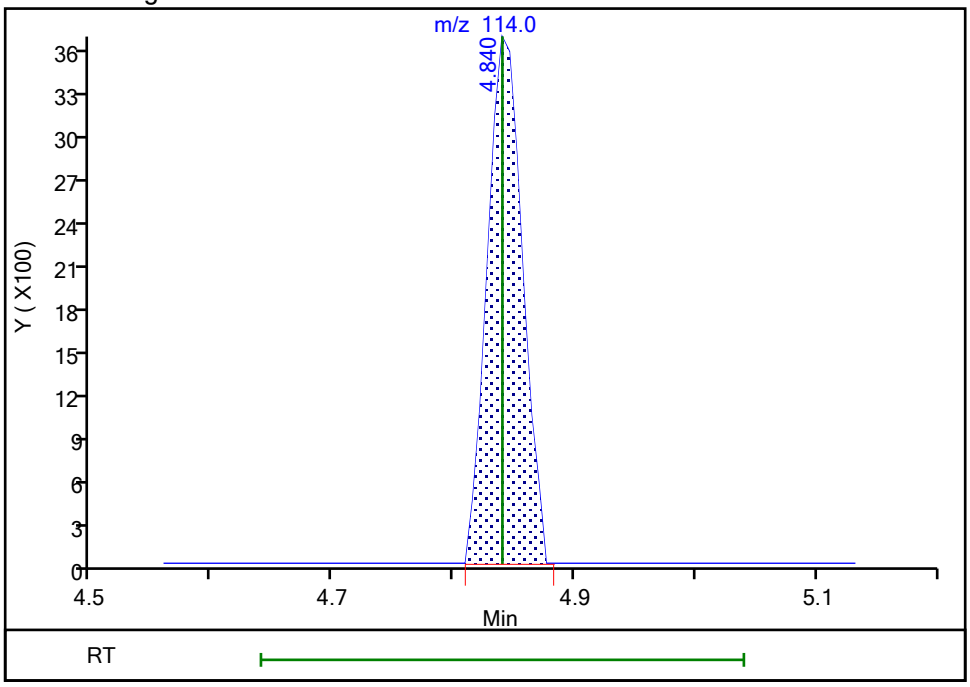
Not Detected
Expected RT: 4.84

Processing Integration Results



Manual Integration Results

RT: 4.84
Area: 7302
Amount: 0.321389
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:23:31 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

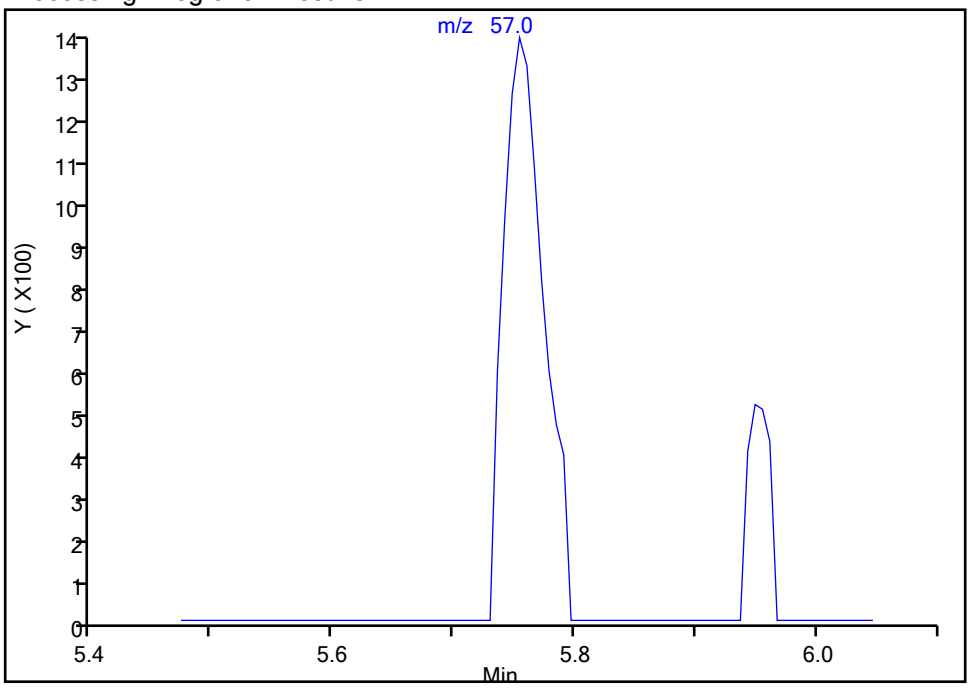
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

71 Epichlorohydrin, CAS: 106-89-8

Signal: 1

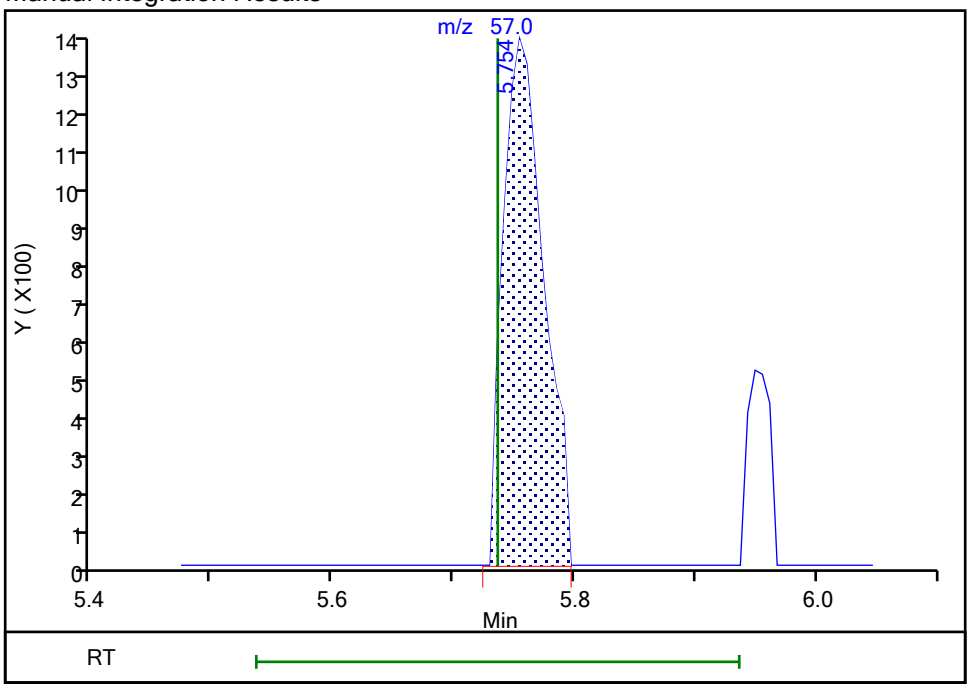
Not Detected
Expected RT: 5.74

Processing Integration Results



Manual Integration Results

RT: 5.75
Area: 3261
Amount: 2.817549
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:24:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

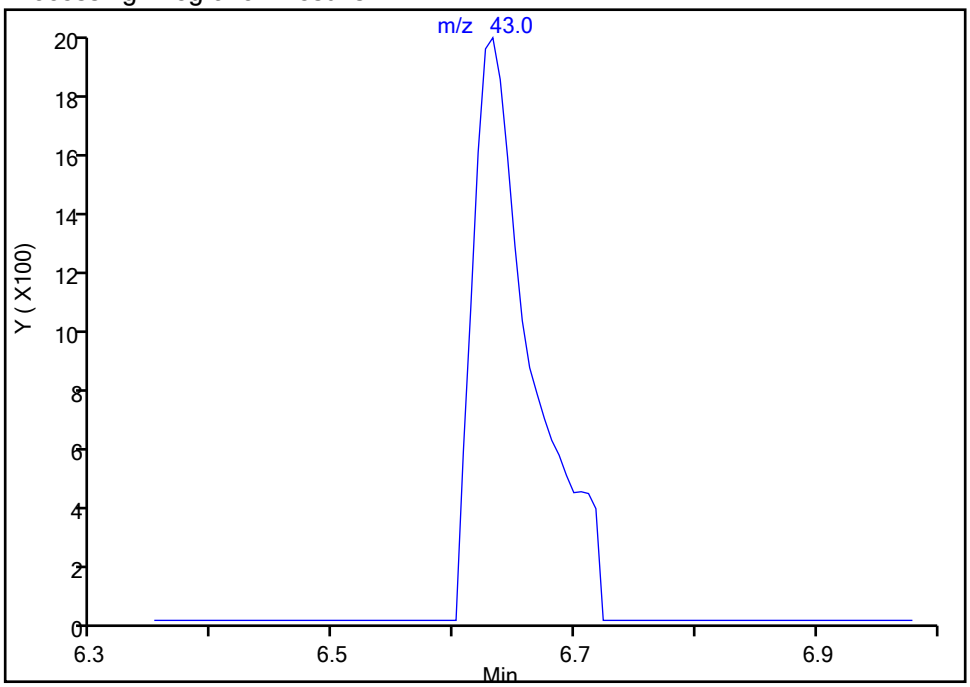
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

155 n-Butyl acetate, CAS: 123-86-4

Signal: 1

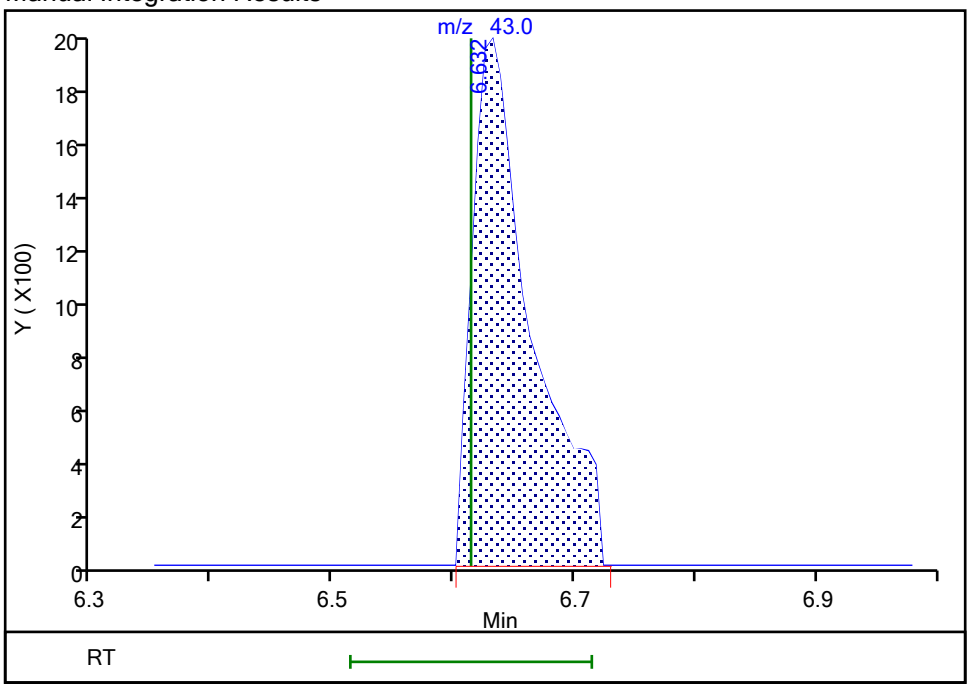
Not Detected
Expected RT: 6.61

Processing Integration Results



Manual Integration Results

RT: 6.63
Area: 6586
Amount: 0.356426
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:24:34 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

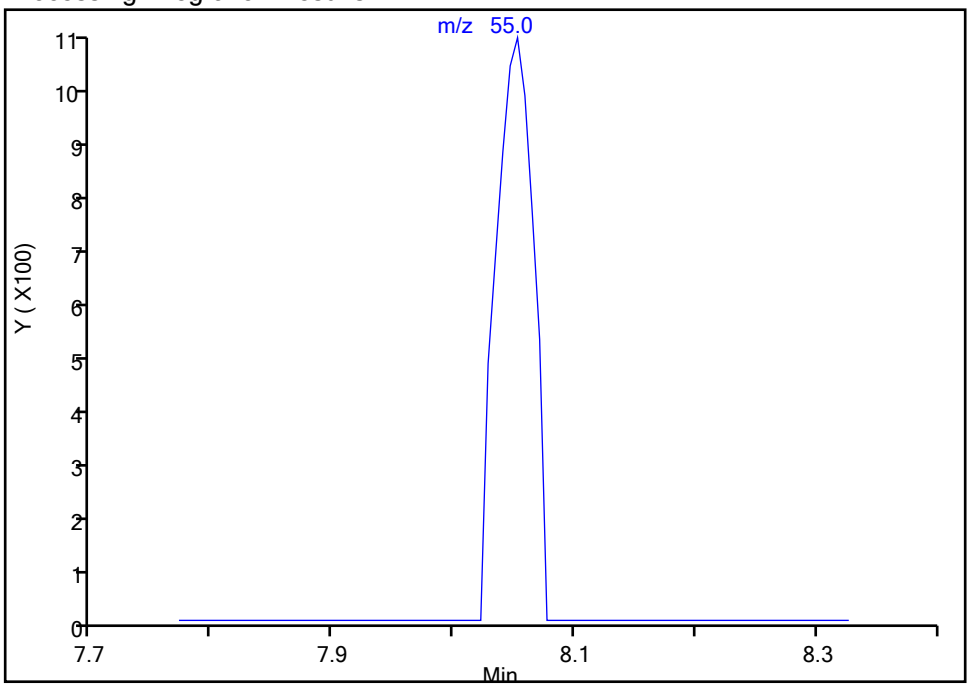
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Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

96 Cyclohexanone, CAS: 108-94-1

Signal: 1

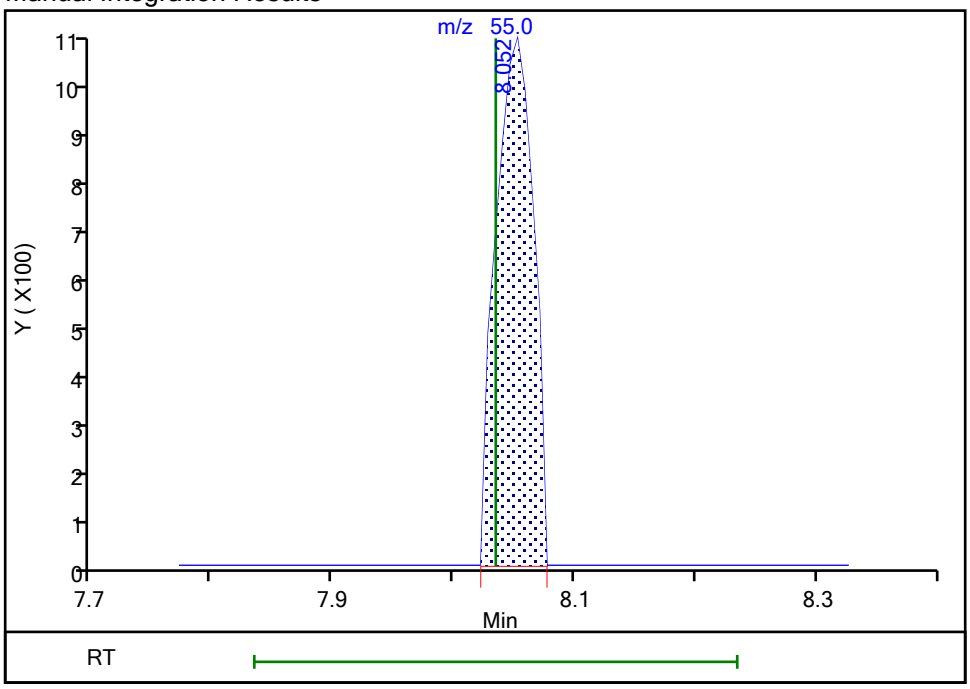
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.05
Area: 2278
Amount: 5.497336
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:24:41 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

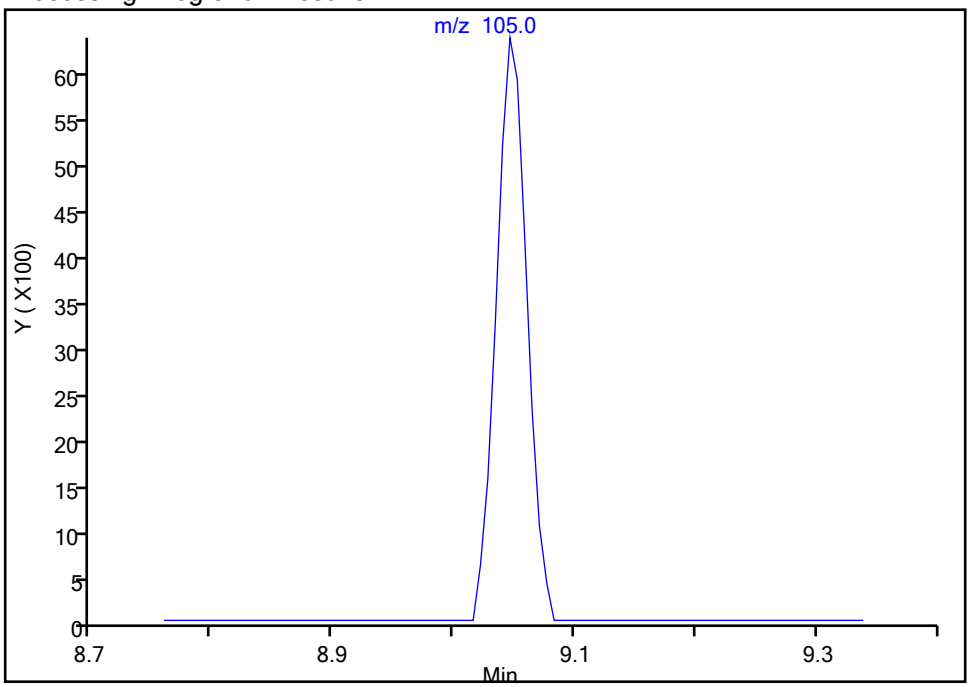
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Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

112 1,2,3-Trimethylbenzene, CAS: 526-73-8

Signal: 1

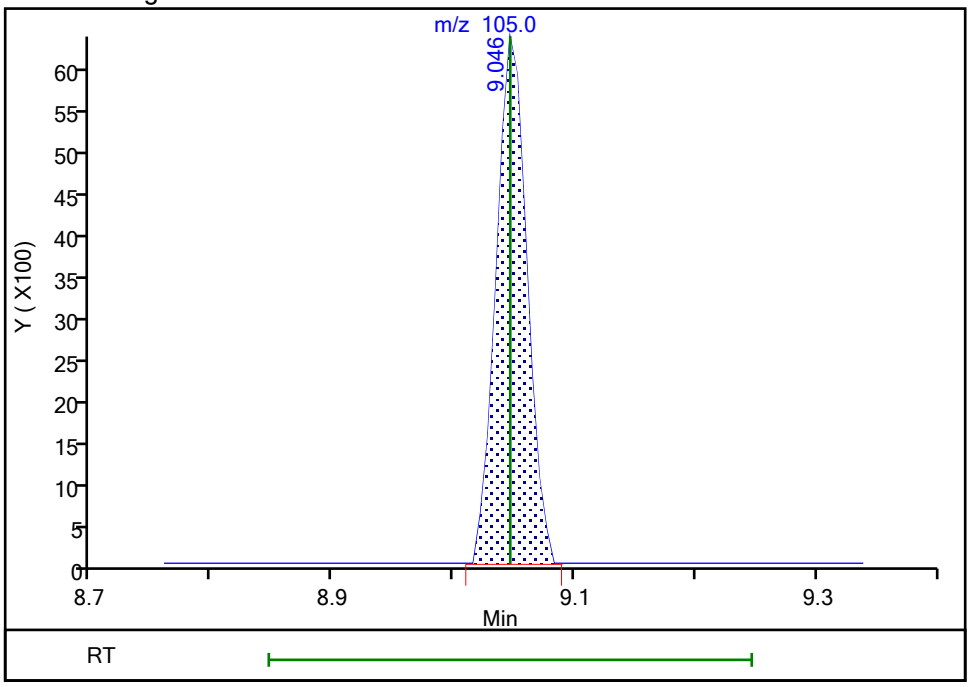
Not Detected
Expected RT: 9.05

Processing Integration Results



Manual Integration Results

RT: 9.05
Area: 11311
Amount: 0.336651
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:24:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

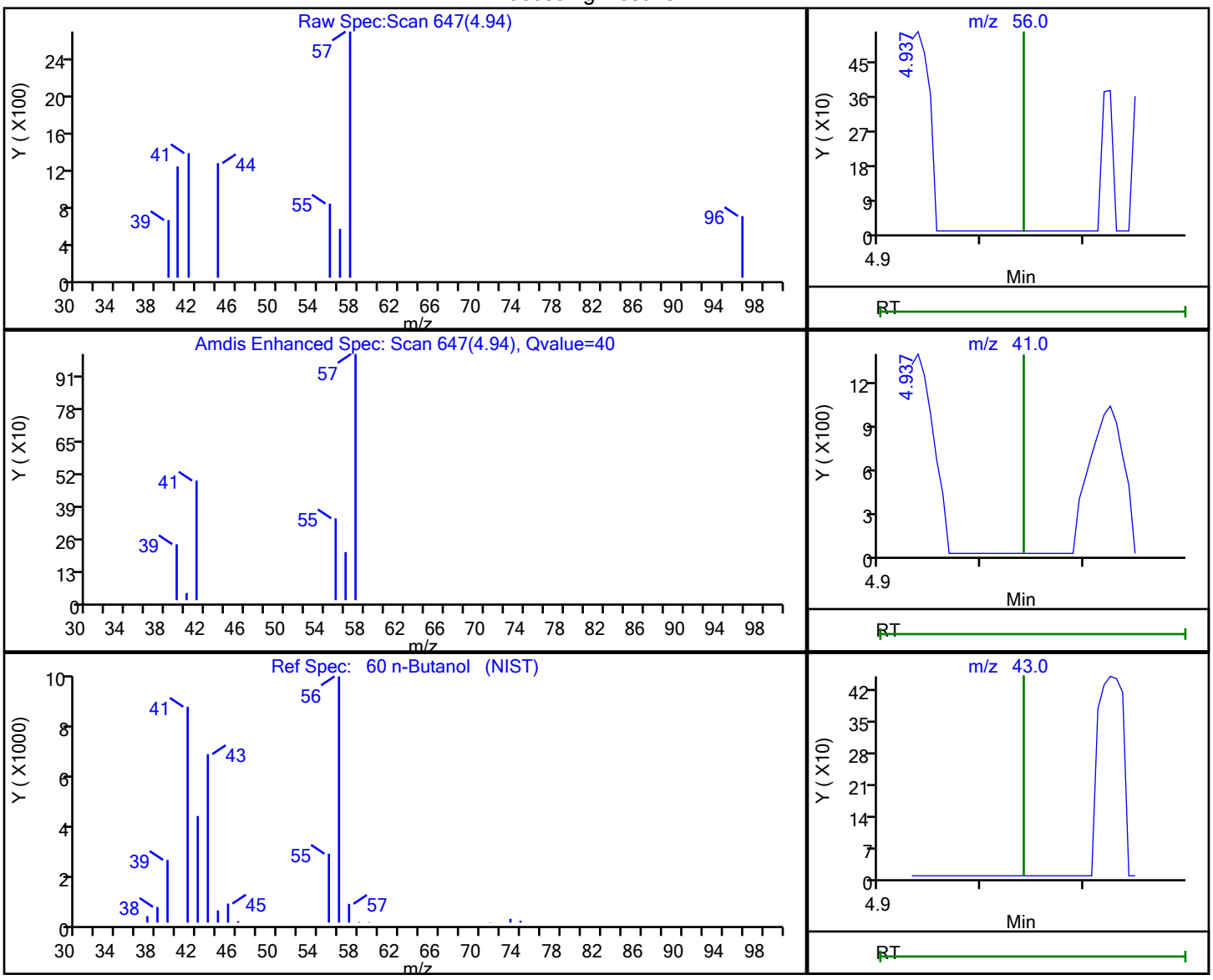
User Disabled Compound Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6846.d
Injection Date: 19-Sep-2024 19:52:30 Instrument ID: HP5975D
Lims ID: IC 8
Client ID:
Operator ID: LH ALS Bottle#: 34 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

60 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
4.94	56.00	835	
4.94	41.00	3172	
5.03	43.00	0	

Reviewer: WLL8, 20-Sep-2024 11:24:09 -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\HP5975D\20240919-120124.b\D6847.d
Lims ID: IC 9
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Sep-2024 20:15:30 ALS Bottle#: 35 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 9
Misc. Info.: 480-0120124-026
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:01 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:25:59

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	4.748	4.748	0.000	98	184998	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	88	364193	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	426815	25.0	25.0	
11 Chlorodifluoromethane	51	1.139	1.139	0.000	97	12205	1.00	0.9633	
141 Ethanol	45	2.163	2.164	-0.001	0	2519	40.0	45.2	M
19 Propene oxide	58	2.237	2.231	0.006	95	12625	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	95	5487	10.0	12.8	M
29 Acetonitrile	40	2.755	2.737	0.018	97	7518	10.0	8.11	
36 Isopropyl ether	45	3.413	3.413	0.000	96	33607	1.00	0.9360	
132 Halothane	117	3.438	3.432	0.006	88	6415	1.00	0.8669	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	93	10996	1.00	0.8192	
38 1,1-Dimethoxyethane	75	3.480	3.474	0.006	97	6747	5.00	4.20	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	96	27476	1.00	0.9526	
42 Ethyl acetate	43	3.944	3.932	0.012	98	22673	2.00	1.80	
46 Propionitrile	54	3.998	3.980	0.018	96	15397	10.0	8.74	
47 Methacrylonitrile	41	4.084	4.078	0.006	97	88618	10.0	10.3	
146 Isooctane	57	4.529	4.529	0.000	93	27406	1.00	0.9026	
140 t-Amyl alcohol	59	4.590	4.584	0.006	61	7189	10.0	9.01	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	89	25461	1.00	0.9259	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	21393	1.00	0.9641	
154 2,4,4-Trimethyl-1-pentene	55	4.937	4.931	0.006	97	6697	NC	NC	
60 n-Butanol	56	5.078	5.041	0.037	65	1727	25.0	7.31	
145 Ethyl acrylate	55	5.126	5.120	0.006	95	26398	1.00	0.8823	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	96	13564	NC	NC	
63 Methyl methacrylate	41	5.297	5.291	0.006	92	19058	2.00	1.89	
70 2-Nitropropane	43	5.644	5.639	0.005	97	5348	2.00	1.70	
71 Epichlorohydrin	57	5.748	5.736	0.012	94	8944	10.0	7.91	
76 2-Methylthiophene	97	6.114	6.114	0.000	98	24871	1.00	0.8896	
78 3-Methylthiophene	97	6.242	6.242	0.000	98	24351	1.00	0.8255	
155 n-Butyl acetate	43	6.626	6.614	0.012	96	15352	1.00	0.8353	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.089	7.077	0.012	87	14926	1.00	1.08	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	93	10921	1.00	0.8862	
86 4-Chlorobenzotrifluoride	180	7.138	7.132	0.006	90	10615	1.00	0.9308	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	96	11690	1.00	0.9109	
96 Cyclohexanone	55	8.046	8.034	0.012	82	3807	10.0	9.26	
104 3-Chlorotoluene	126	8.382	8.376	0.006	95	8691	1.00	0.8862	
108 Pentachloroethane	167	8.699	8.699	0.000	88	4789	1.00	0.8449	
114 Dicyclopentadiene	66	9.010	9.010	0.000	94	41621	1.00	0.9670	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	98	29886	1.00	0.8965	
143 Benzyl chloride	91	9.156	9.150	0.006	99	16248	1.00	0.9037	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	98	13411	1.00	0.8728	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	91	13492	1.00	1.17	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

ADD CORP mix_00149	Amount Added:	1.00	Units: uL
2 MTP 2019_00064	Amount Added:	1.00	Units: uL
3 MTP 2019_00064	Amount Added:	1.00	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	1.00	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

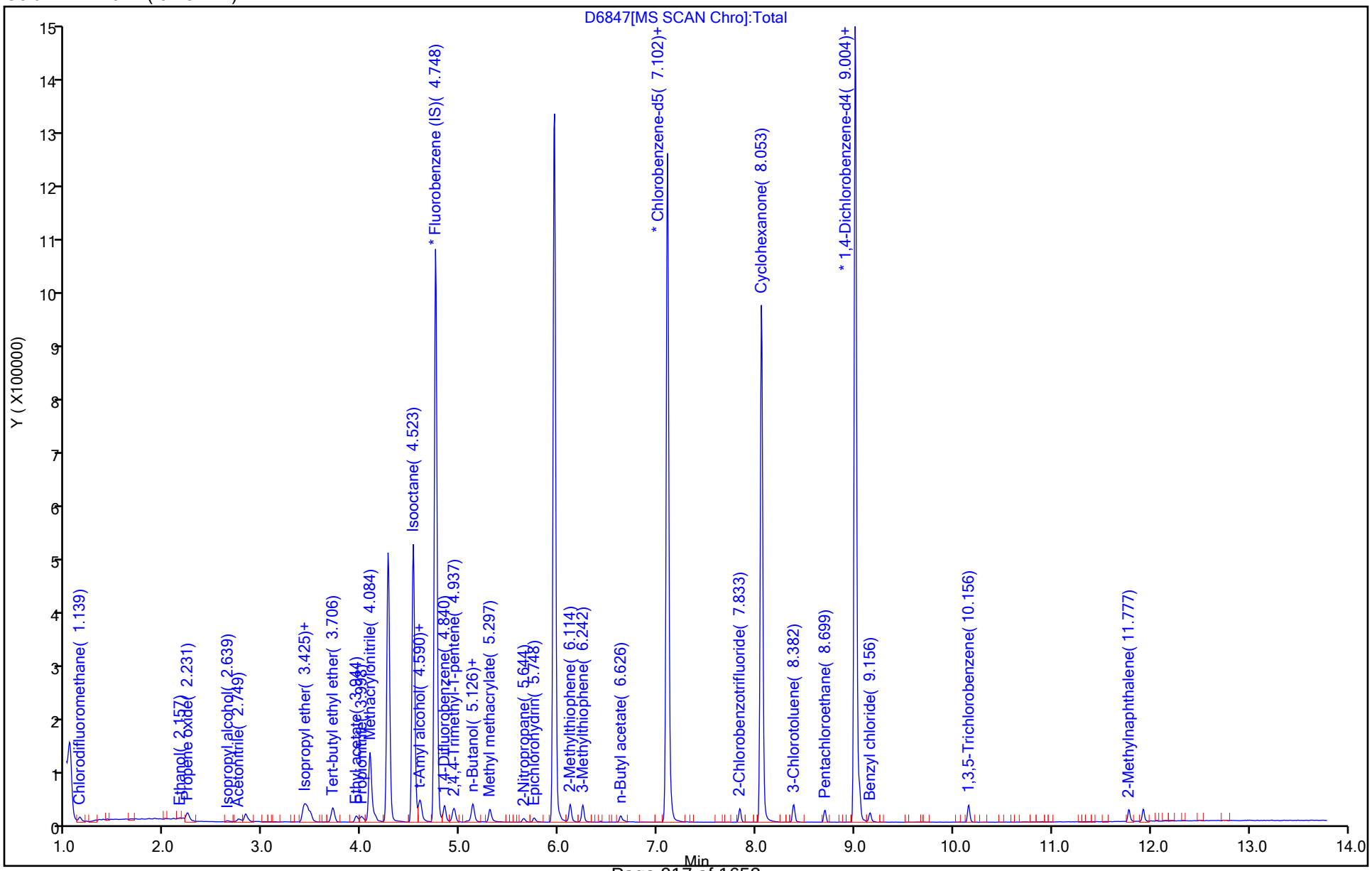
Report Date: 20-Sep-2024 11:50:01 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6847.d

Injection Date:	19-Sep-2024 20:15:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 9			Worklist Smp#:	26
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	35
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

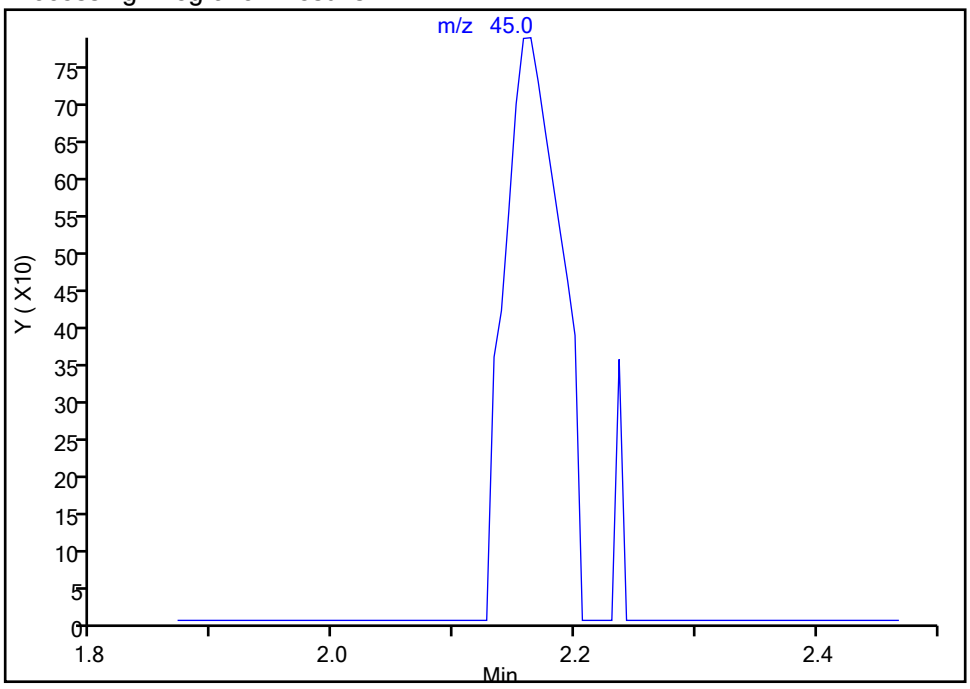
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6847.d
Injection Date: 19-Sep-2024 20:15:30 Instrument ID: HP5975D
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 35 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

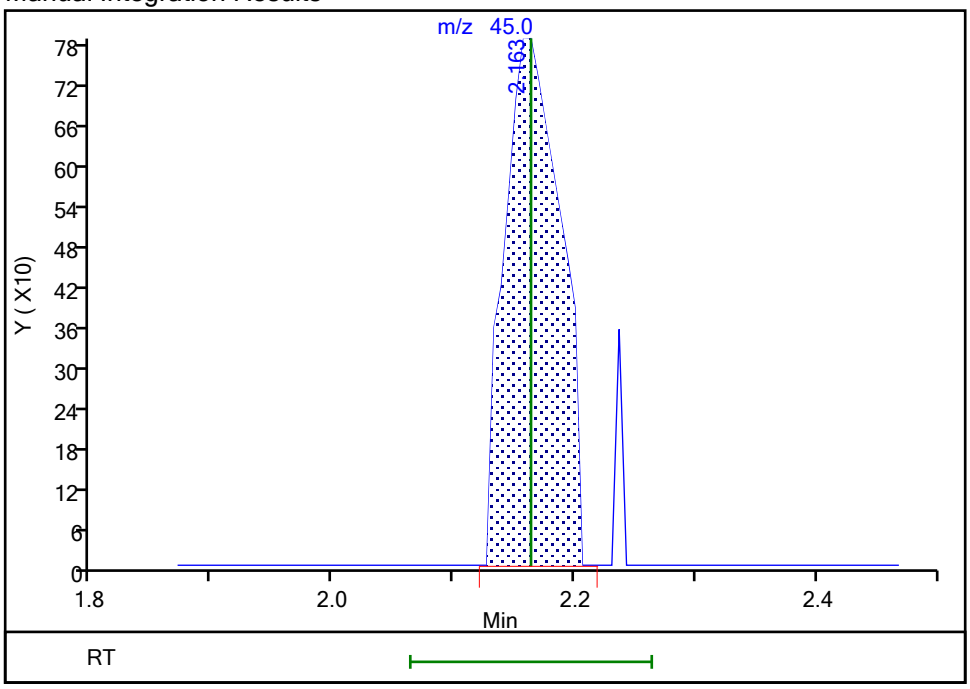
Not Detected
Expected RT: 2.16

Processing Integration Results



Manual Integration Results

RT: 2.16
Area: 2519
Amount: 45.249188
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:25:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo

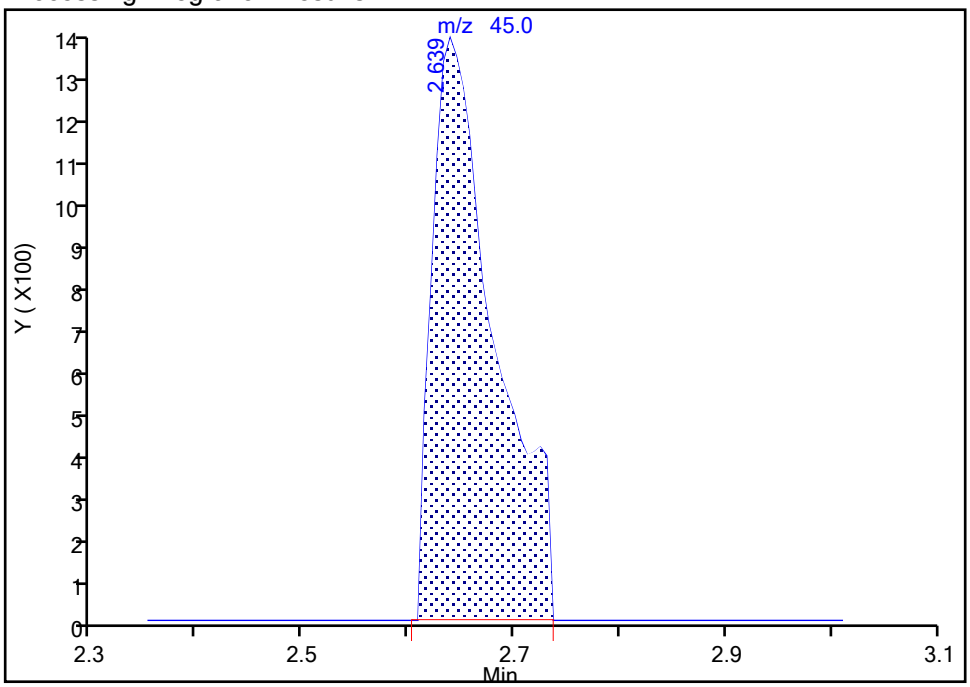
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6847.d
Injection Date: 19-Sep-2024 20:15:30 Instrument ID: HP5975D
Lims ID: IC 9
Client ID:
Operator ID: LH ALS Bottle#: 35 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

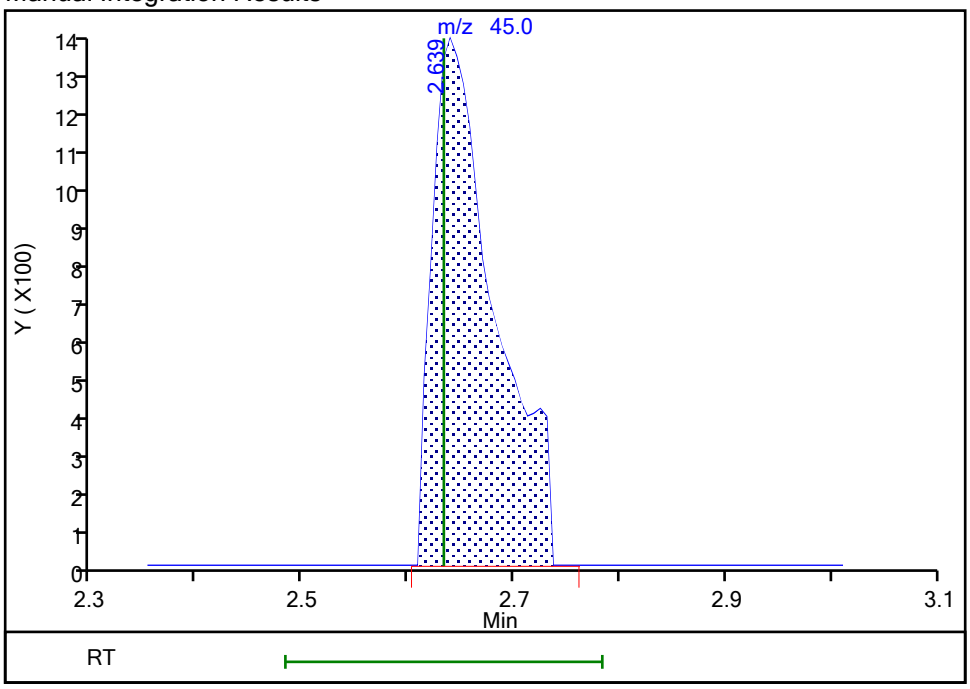
Processing Integration Results

RT: 2.64
Area: 5488
Amount: 13.834670
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 5487
Amount: 12.804102
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:33:34 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6848.d
Lims ID: IC 10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Sep-2024 20:37:30 ALS Bottle#: 36 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 10
Misc. Info.: 480-0120124-027
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:07 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:27:16

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	4.748	4.748	0.000	98	183773	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.102	-0.001	88	360134	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	419696	25.0	25.0	
11 Chlorodifluoromethane	51	1.145	1.139	0.006	97	58296	5.00	4.63	
141 Ethanol	45	2.157	2.164	-0.007	96	18235	200.0	180.9	M
19 Propene oxide	58	2.230	2.231	-0.001	95	63177	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	97	29461	50.0	40.8	M
29 Acetonitrile	40	2.749	2.737	0.012	99	43426	50.0	47.1	M
36 Isopropyl ether	45	3.413	3.413	0.000	97	170211	5.00	4.77	
132 Halothane	117	3.438	3.432	0.006	90	31799	5.00	4.33	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	97	61386	5.00	4.60	
38 1,1-Dimethoxyethane	75	3.480	3.474	0.006	98	38677	25.0	24.2	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	97	140015	5.00	4.89	
42 Ethyl acetate	43	3.937	3.932	0.005	99	122558	10.0	9.80	
46 Propionitrile	54	3.992	3.980	0.012	99	85703	50.0	49.0	
47 Methacrylonitrile	41	4.078	4.078	0.000	98	427846	50.0	50.1	
146 Isooctane	57	4.529	4.529	0.000	96	140361	5.00	4.65	
140 t-Amyl alcohol	59	4.590	4.584	0.006	74	51464	50.0	49.3	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	92	132070	5.00	4.83	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	107745	5.00	4.89	
154 2,4,4-Trimethyl-1-pentene	55	4.937	4.931	0.006	98	31063	NC	NC	
60 n-Butanol	56	5.047	5.041	0.006	95	20816	125.0	88.7	
145 Ethyl acrylate	55	5.126	5.120	0.006	94	140445	5.00	4.73	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	90	65778	NC	NC	a
63 Methyl methacrylate	41	5.297	5.291	0.006	93	96960	10.0	9.69	
70 2-Nitropropane	43	5.638	5.639	-0.001	99	28317	10.0	9.14	
71 Epichlorohydrin	57	5.742	5.736	0.006	98	55521	50.0	49.4	
76 2-Methylthiophene	97	6.114	6.114	0.000	98	127972	5.00	4.65	
78 3-Methylthiophene	97	6.242	6.242	0.000	99	140531	5.00	4.84	
155 n-Butyl acetate	43	6.620	6.614	0.006	96	89188	5.00	4.91	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.077	7.077	0.000	93	42260	5.00	4.47	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	55865	5.00	4.61	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	92	52603	5.00	4.69	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	97	58210	5.00	4.61	
96 Cyclohexanone	55	8.034	8.034	0.000	96	18360	50.0	45.4	
104 3-Chlorotoluene	126	8.376	8.376	0.000	96	44039	5.00	4.57	
108 Pentachloroethane	167	8.699	8.699	0.000	91	26424	5.00	4.74	
114 Dicyclopentadiene	66	9.010	9.010	0.000	93	183889	5.00	4.34	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	99	160385	5.00	4.89	
143 Benzyl chloride	91	9.150	9.150	0.000	99	83414	5.00	4.72	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	97	73448	5.00	4.86	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	92	87883	5.00	4.34	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

ADD CORP mix_00149	Amount Added:	5.00	Units: uL
2 MTP 2019_00064	Amount Added:	5.00	Units: uL
3 MTP 2019_00064	Amount Added:	5.00	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	5.00	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

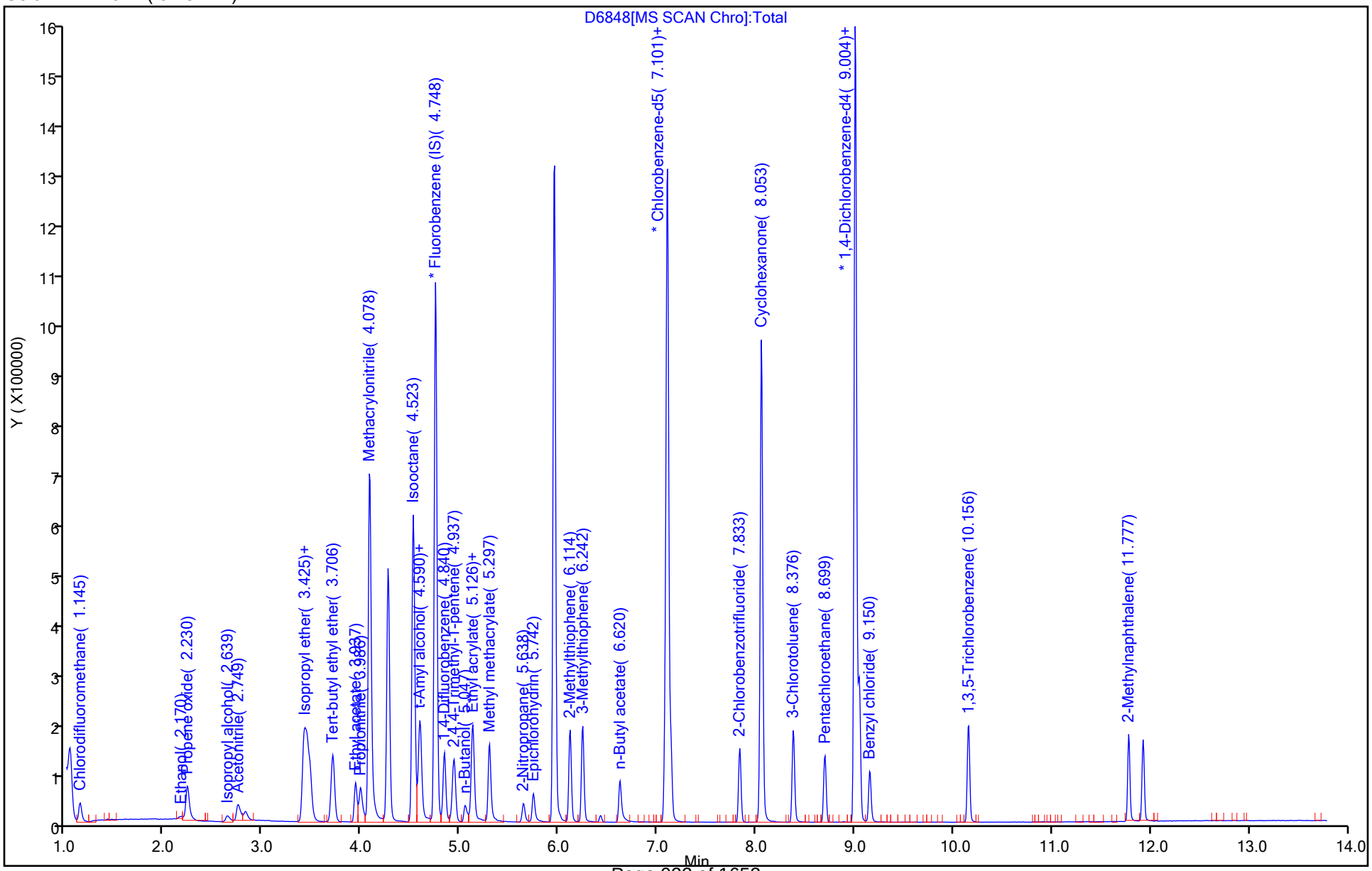
Report Date: 20-Sep-2024 11:50:07 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6848.d

Injection Date:	19-Sep-2024 20:37:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 10			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

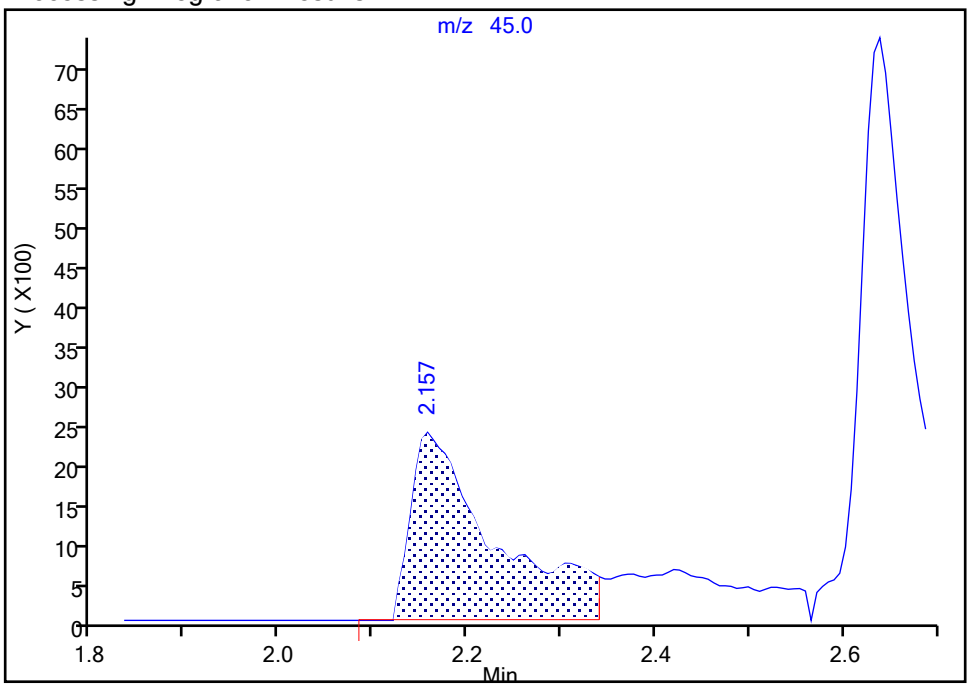
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Injection Date: 19-Sep-2024 20:37:30 Instrument ID: HP5975D
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 36 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

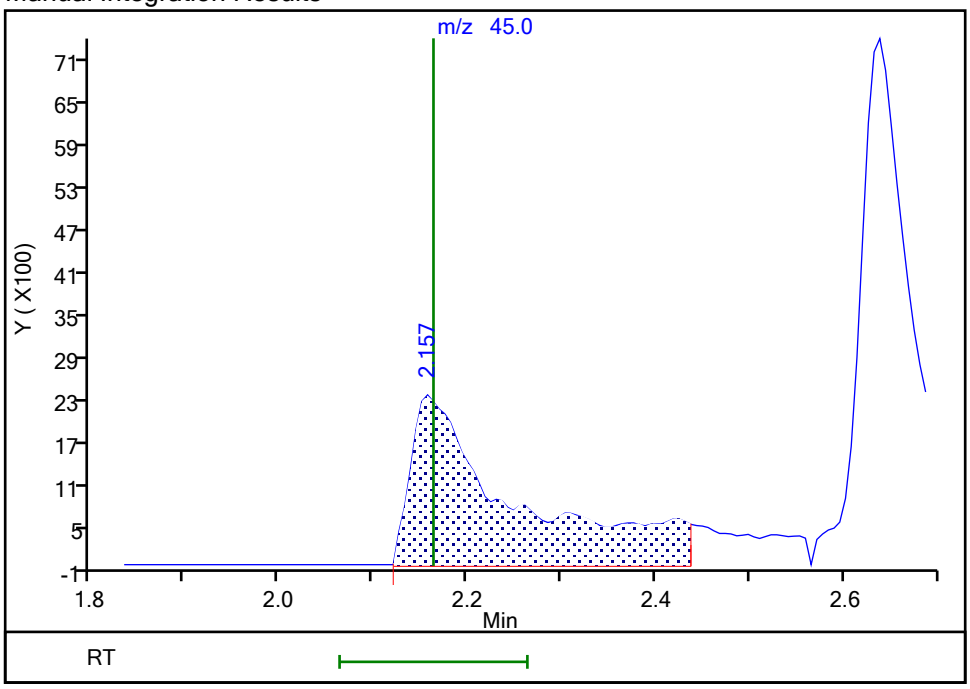
Processing Integration Results

RT: 2.16
Area: 14722
Amount: 171.3179
Amount Units: ug/L



Manual Integration Results

RT: 2.16
Area: 18235
Amount: 180.9143
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:26:35 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

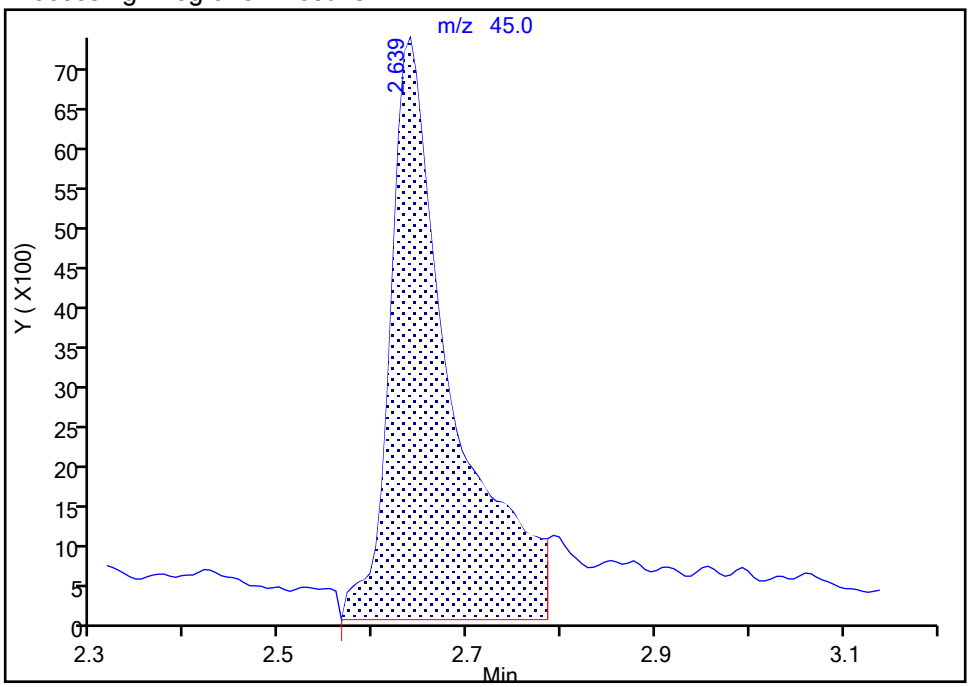
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Injection Date: 19-Sep-2024 20:37:30 Instrument ID: HP5975D
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 36 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

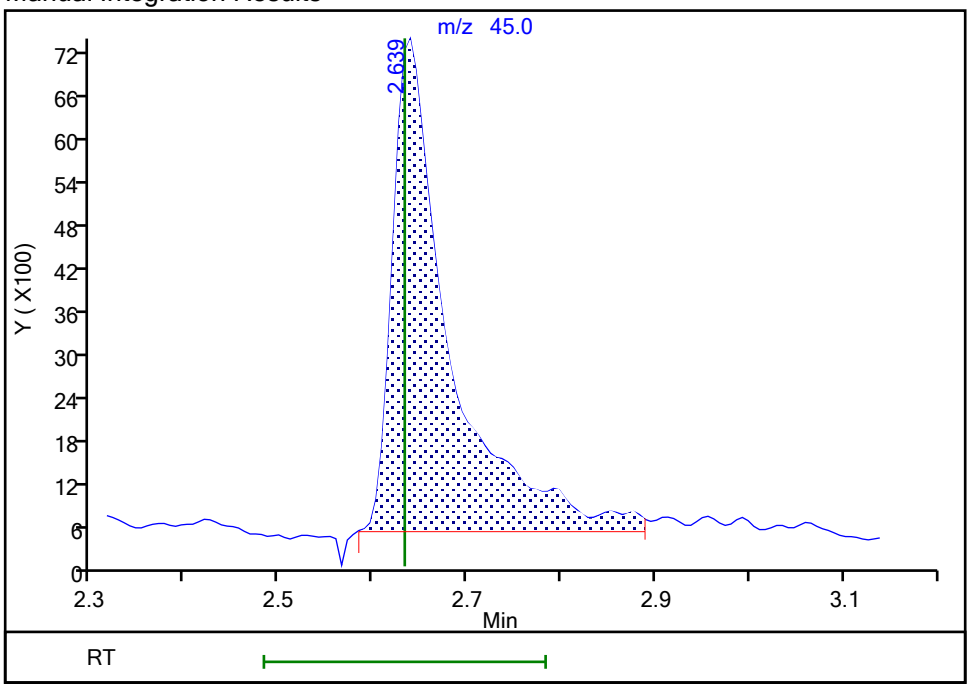
Processing Integration Results

RT: 2.64
Area: 33577
Amount: 60.883434
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 29461
Amount: 40.791439
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:26:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

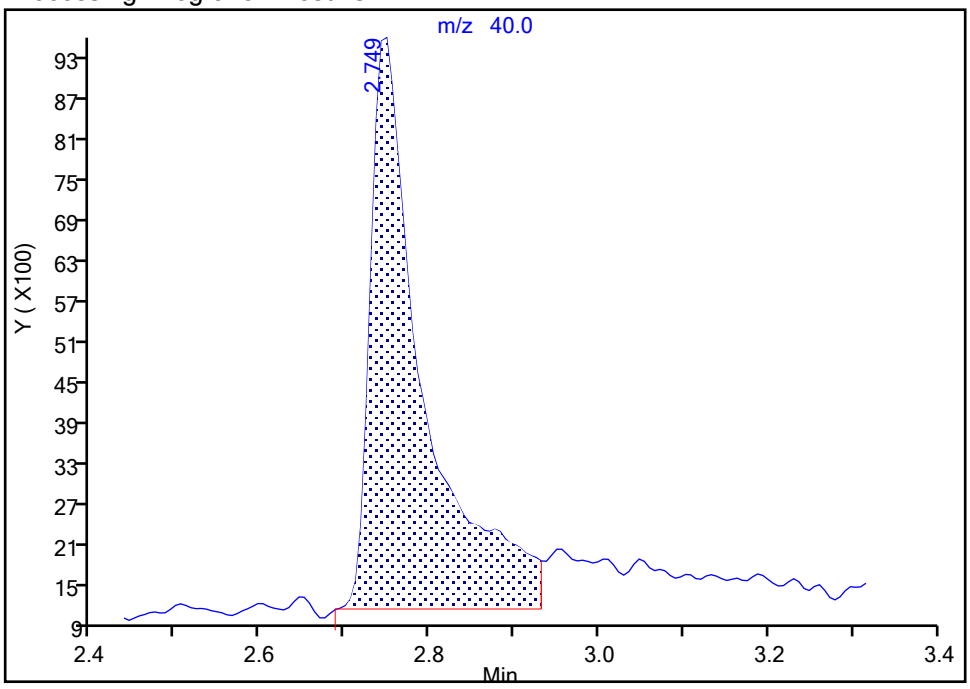
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Injection Date: 19-Sep-2024 20:37:30 Instrument ID: HP5975D
Lims ID: IC 10
Client ID:
Operator ID: LH ALS Bottle#: 36 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

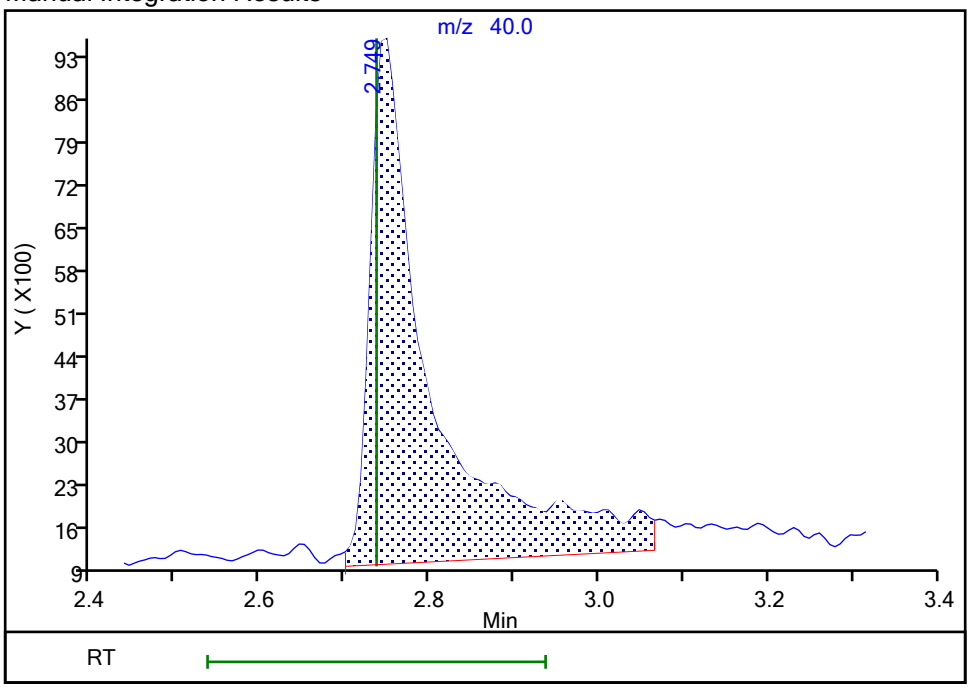
Processing Integration Results

RT: 2.75
Area: 37078
Amount: 46.571720
Amount Units: ug/L



Manual Integration Results

RT: 2.75
Area: 43426
Amount: 47.148733
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:26:54 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6849.d
Lims ID: IC 11
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Sep-2024 20:59:30 ALS Bottle#: 37 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 11
Misc. Info.: 480-0120124-028
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:13 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:28:06

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	4.748	4.748	0.000	98	183113	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.101	0.000	88	369110	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	96	420180	25.0	25.0	
11 Chlorodifluoromethane	51	1.139	1.139	0.000	98	117456	10.0	9.37	
141 Ethanol	45	2.157	2.157	0.000	98	37431	400.0	347.6	M
19 Propene oxide	58	2.230	2.230	0.000	95	127409	NC	NC	
24 Isopropyl alcohol	45	2.633	2.633	0.000	98	66284	100.0	84.0	
29 Acetonitrile	40	2.736	2.736	0.000	99	91576	100.0	99.8	
36 Isopropyl ether	45	3.413	3.413	0.000	97	354549	10.0	9.98	
132 Halothane	117	3.431	3.431	0.000	90	66531	10.0	9.08	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	96	129507	10.0	9.75	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	99	78398	50.0	49.2	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	98	288236	10.0	10.1	
42 Ethyl acetate	43	3.931	3.931	0.000	99	250989	20.0	20.1	
46 Propionitrile	54	3.986	3.986	0.000	99	176141	100.0	101.0	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	864532	100.0	101.7	
146 Isooctane	57	4.529	4.529	0.000	97	288300	10.0	9.59	
140 t-Amyl alcohol	59	4.584	4.584	0.000	71	96019	100.0	90.2	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	89	271574	10.0	9.98	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	226213	10.0	10.3	
154 2,4,4-Trimethyl-1-pentene	55	4.931	4.931	0.000	98	61685	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	97	55097	250.0	235.5	
145 Ethyl acrylate	55	5.120	5.120	0.000	98	302678	10.0	10.2	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	94	140105	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	93	209544	20.0	21.0	
70 2-Nitropropane	43	5.638	5.638	0.000	98	60976	20.0	19.7	
71 Epichlorohydrin	57	5.736	5.736	0.000	98	113532	100.0	101.5	
76 2-Methylthiophene	97	6.114	6.114	0.000	98	276253	10.0	10.0	
78 3-Methylthiophene	97	6.242	6.242	0.000	100	300279	10.0	10.3	
155 n-Butyl acetate	43	6.614	6.614	0.000	96	189046	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
139 1-Chlorohexane	55	7.077	7.077	0.000	90	85876	10.0	9.58	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	119447	10.0	9.85	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	94	113526	10.0	10.1	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	124418	10.0	9.85	
96 Cyclohexanone	55	8.034	8.034	0.000	95	37980	100.0	93.8	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	98125	10.0	10.2	
108 Pentachloroethane	167	8.699	8.699	0.000	92	57240	10.0	10.3	
114 Dicyclopentadiene	66	9.010	9.010	0.000	94	396465	10.0	9.36	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	99	339685	10.0	10.4	
143 Benzyl chloride	91	9.150	9.150	0.000	99	177641	10.0	10.0	
118 1,3,5-Trichlorobenzene	180	10.156	10.156	0.000	98	156807	10.0	10.4	
142 2-Methylnaphthalene	142	11.777	11.777	0.000	92	205763	10.0	9.34	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

ADD CORP mix_00149	Amount Added:	5.00	Units: uL
2 MTP 2019_00064	Amount Added:	5.00	Units: uL
3 MTP 2019_00064	Amount Added:	5.00	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	5.00	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

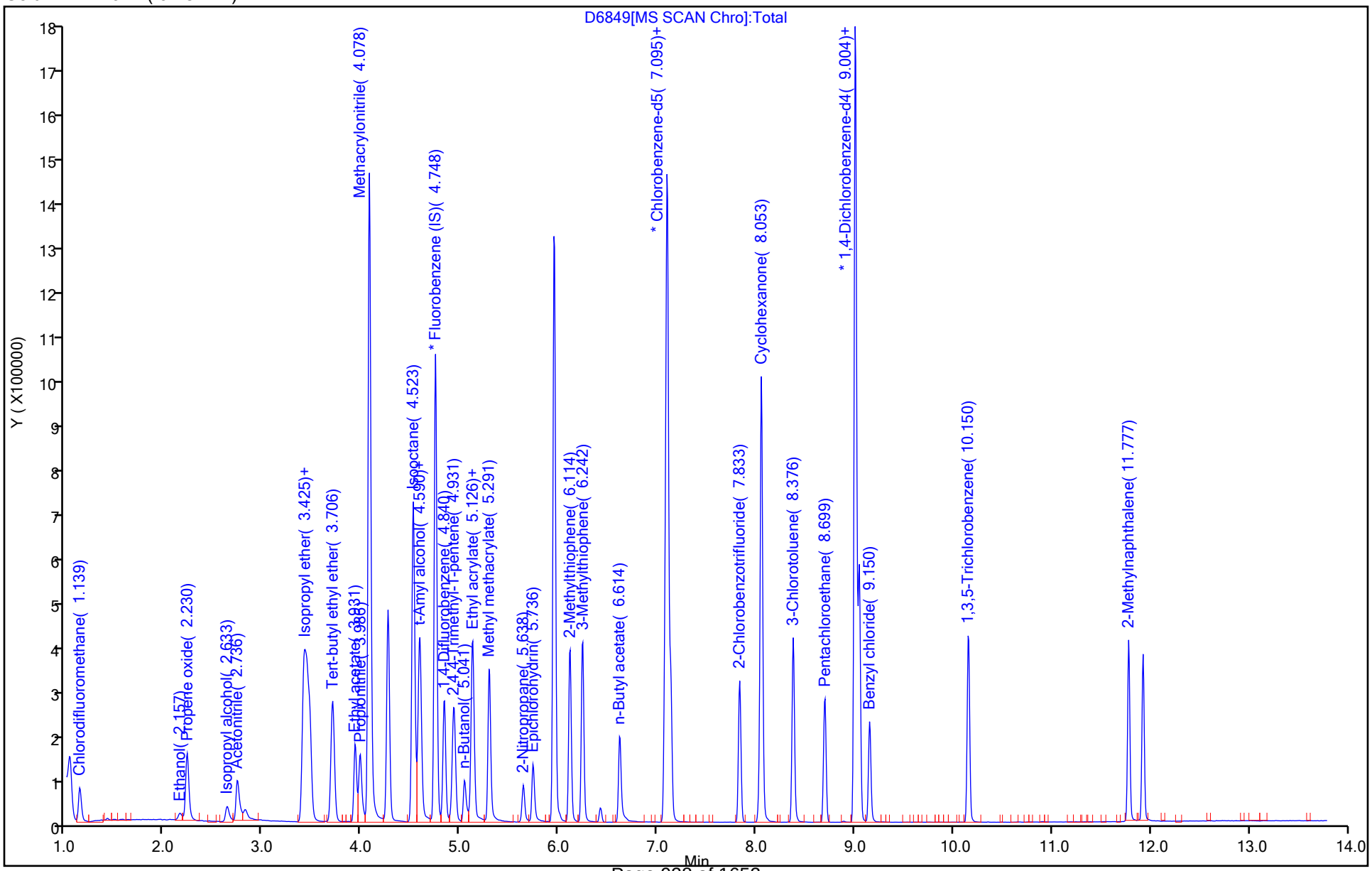
Report Date: 20-Sep-2024 11:50:13 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6849.d

Injection Date:	19-Sep-2024 20:59:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 11			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

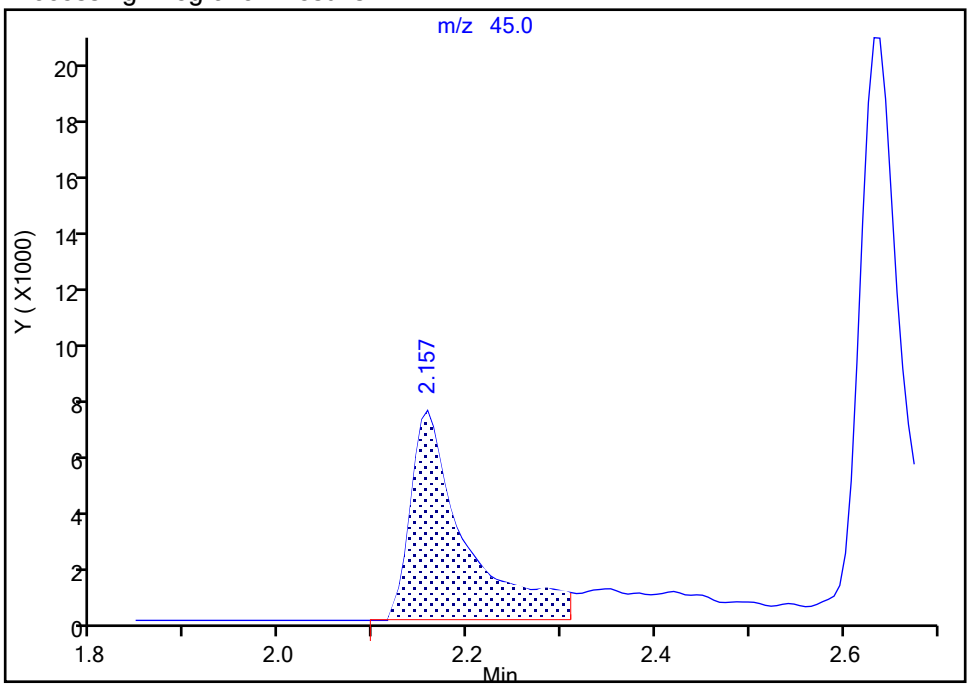
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Injection Date: 19-Sep-2024 20:59:30 Instrument ID: HP5975D
Lims ID: IC 11
Client ID:
Operator ID: LH ALS Bottle#: 37 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

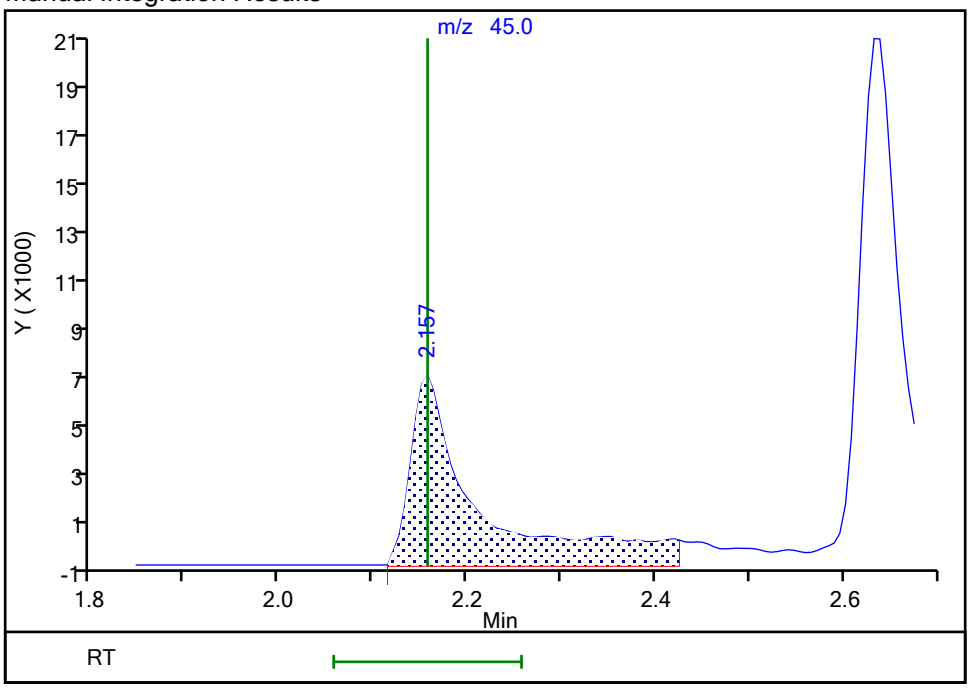
Processing Integration Results

RT: 2.16
Area: 30324
Amount: 346.3744
Amount Units: ug/L



Manual Integration Results

RT: 2.16
Area: 37431
Amount: 347.6074
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:27:35 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6850.d
Lims ID: IC 12
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Sep-2024 21:21:30 ALS Bottle#: 38 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 12
Misc. Info.: 480-0120124-029
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:29:49

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	4.748	4.748	0.000	98	173806	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	88	343362	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	97	398782	25.0	25.0	
11 Chlorodifluoromethane	51	1.139	1.139	0.000	98	307476	25.0	25.8	
141 Ethanol	45	2.164	2.164	0.000	94	118880	1000.0	1107.6	M
19 Propene oxide	58	2.231	2.231	0.000	95	314208	NC	NC	
24 Isopropyl alcohol	45	2.633	2.633	0.000	98	205323	250.0	259.5	M
29 Acetonitrile	40	2.737	2.737	0.000	99	230708	250.0	264.8	
36 Isopropyl ether	45	3.413	3.413	0.000	97	897959	25.0	26.6	
132 Halothane	117	3.432	3.432	0.000	91	159618	25.0	23.0	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	96	342432	25.0	27.2	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	98	211469	125.0	140.0	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	98	709453	25.0	26.2	
42 Ethyl acetate	43	3.932	3.932	0.000	99	625852	50.0	52.9	
46 Propionitrile	54	3.980	3.980	0.000	99	456717	250.0	276.0	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	2046456	250.0	253.5	
146 Isooctane	57	4.529	4.529	0.000	97	758384	25.0	26.6	
140 t-Amyl alcohol	59	4.584	4.584	0.000	76	254201	250.0	247.1	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	95	683465	25.0	26.5	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	557751	25.0	26.8	
154 2,4,4-Trimethyl-1-pentene	55	4.931	4.931	0.000	98	157743	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	95	179752	625.0	809.5	
145 Ethyl acrylate	55	5.120	5.120	0.000	97	733994	25.0	26.1	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	89	345833	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	93	503834	50.0	53.3	
70 2-Nitropropane	43	5.639	5.639	0.000	98	151901	50.0	51.6	
71 Epichlorohydrin	57	5.736	5.736	0.000	98	285354	250.0	268.7	
76 2-Methylthiophene	97	6.114	6.114	0.000	98	665285	25.0	25.5	
78 3-Methylthiophene	97	6.242	6.242	0.000	100	723861	25.0	26.3	
155 n-Butyl acetate	43	6.614	6.614	0.000	96	484082	25.0	27.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.077	7.077	0.000	93	197100	25.0	24.7	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	295296	25.0	25.6	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	95	271733	25.0	25.5	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	307038	25.0	25.6	
96 Cyclohexanone	55	8.034	8.034	0.000	96	102062	250.0	265.7	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	240311	25.0	26.2	
108 Pentachloroethane	167	8.699	8.699	0.000	92	143635	25.0	27.1	
114 Dicyclopentadiene	66	9.010	9.010	0.000	95	1012361	25.0	25.2	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	98	833440	25.0	26.8	
143 Benzyl chloride	91	9.150	9.150	0.000	99	454657	25.0	27.1	
118 1,3,5-Trichlorobenzene	180	10.150	10.150	0.000	98	386966	25.0	27.0	
142 2-Methylnaphthalene	142	11.778	11.778	0.000	92	547566	25.0	25.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

ADD CORP mix_00149	Amount Added:	12.50	Units: uL
2 MTP 2019_00064	Amount Added:	12.50	Units: uL
3 MTP 2019_00064	Amount Added:	12.50	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	12.50	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

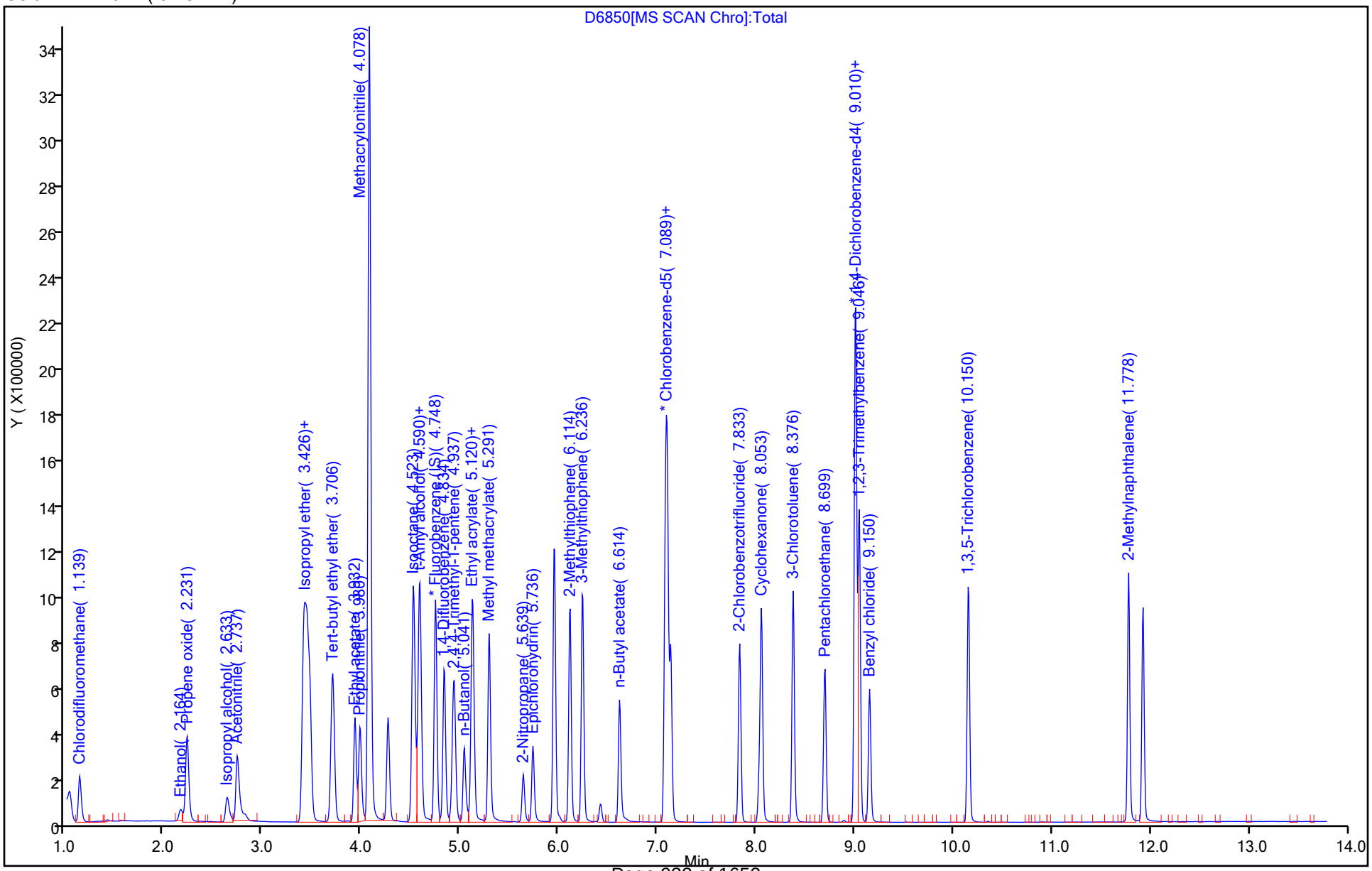
Report Date: 20-Sep-2024 11:50:20 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6850.d

Injection Date:	19-Sep-2024 21:21:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 12			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	38
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

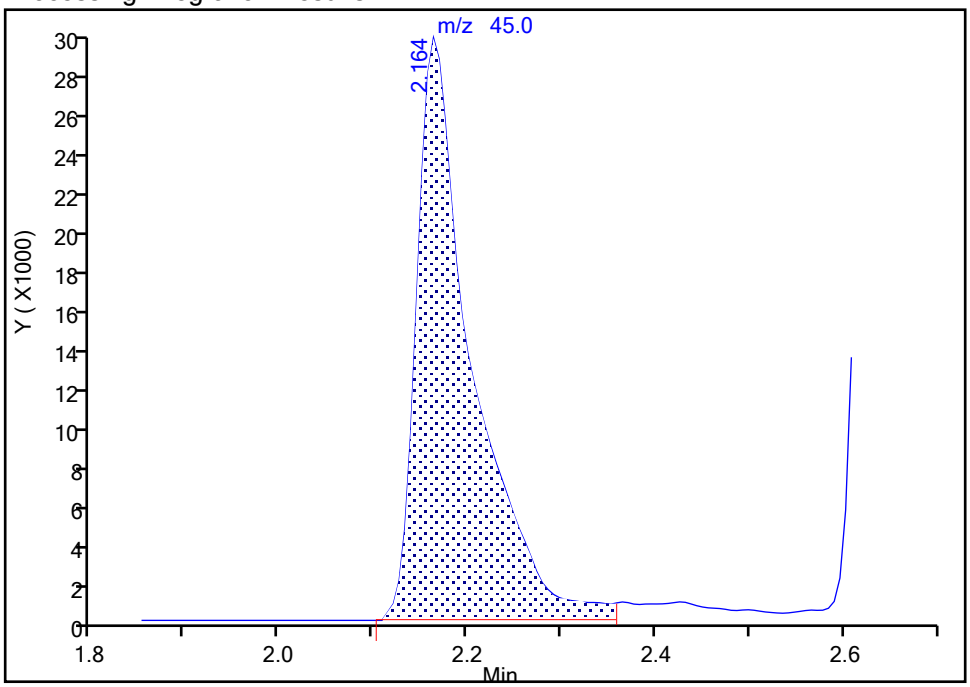
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Injection Date: 19-Sep-2024 21:21:30 Instrument ID: HP5975D
Lims ID: IC 12
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

141 Ethanol, CAS: 64-17-5

Signal: 1

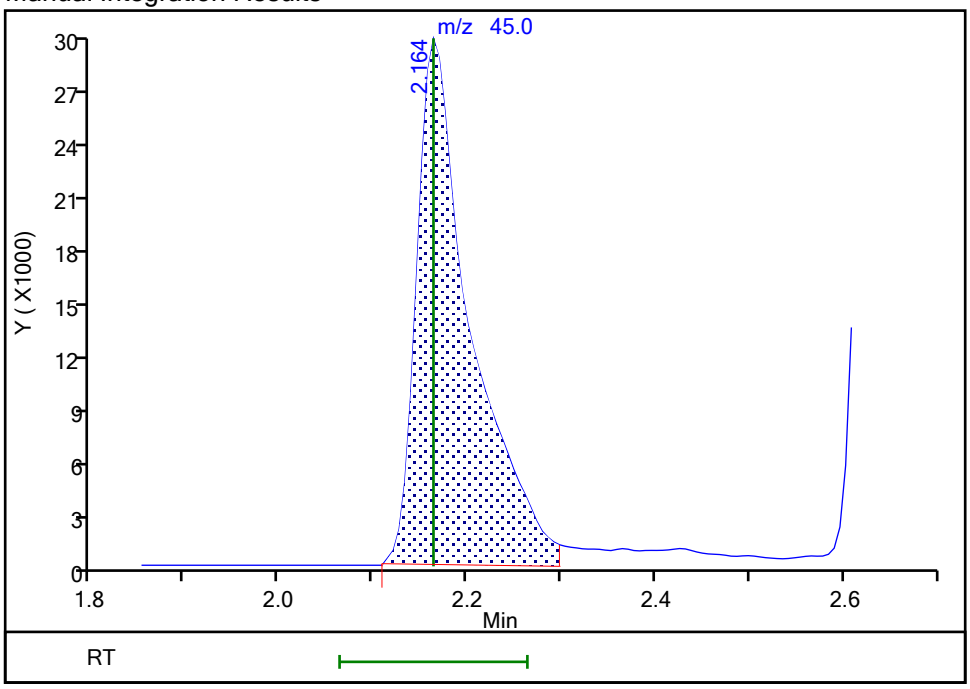
Processing Integration Results

RT: 2.16
Area: 122399
Amount: 1297.5559
Amount Units: ug/L



Manual Integration Results

RT: 2.16
Area: 118880
Amount: 1107.5759
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:29:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Buffalo

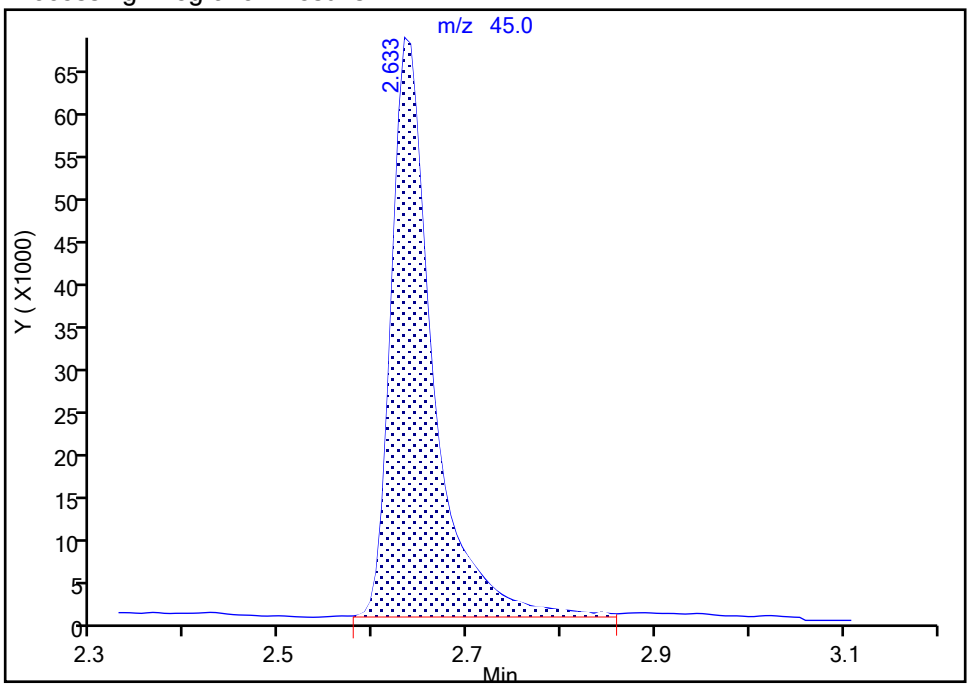
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6850.d
Injection Date: 19-Sep-2024 21:21:30 Instrument ID: HP5975D
Lims ID: IC 12
Client ID:
Operator ID: LH ALS Bottle#: 38 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

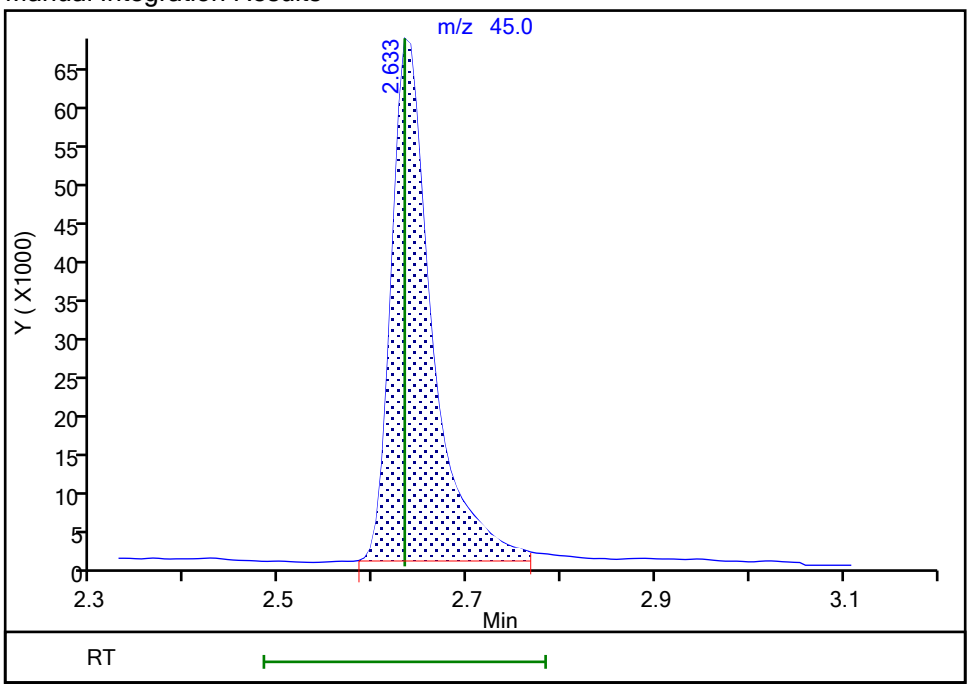
Processing Integration Results

RT: 2.63
Area: 208605
Amount: 313.2689
Amount Units: ug/L



Manual Integration Results

RT: 2.63
Area: 205323
Amount: 259.5074
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:31:17 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6851.d
Lims ID: IC 13
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Sep-2024 21:43:30 ALS Bottle#: 39 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 13
Misc. Info.: 480-0120124-030
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:26 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:30:08

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	4.748	4.748	0.000	98	168723	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	340106	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	97	373633	25.0	25.0	
11 Chlorodifluoromethane	51	1.139	1.139	0.000	98	625957	50.0	54.2	
141 Ethanol	45	2.170	2.164	0.006	97	209543	2000.0	1991.8	
19 Propene oxide	58	2.231	2.231	0.000	95	585787	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	99	398905	500.0	512.9	M
29 Acetonitrile	40	2.737	2.737	0.000	100	454229	500.0	537.2	
36 Isopropyl ether	45	3.413	3.413	0.000	97	1777733	50.0	54.3	
132 Halothane	117	3.432	3.432	0.000	91	328588	50.0	48.7	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	96	690477	50.0	56.4	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	99	413989	250.0	282.2	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	98	1379003	50.0	52.4	
42 Ethyl acetate	43	3.931	3.932	-0.001	99	1177376	100.0	102.6	
46 Propionitrile	54	3.980	3.980	0.000	99	843888	500.0	525.4	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	3716449	500.0	474.3	
146 Isooctane	57	4.529	4.529	0.000	97	1518633	50.0	54.8	
140 t-Amyl alcohol	59	4.584	4.584	0.000	74	485163	500.0	483.4	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	90	1307381	50.0	52.1	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	1102430	50.0	54.5	
154 2,4,4-Trimethyl-1-pentene	55	4.937	4.931	0.006	98	327137	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	95	356750	1250.0	1655.1	
145 Ethyl acrylate	55	5.120	5.120	0.000	98	1468777	50.0	53.8	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	90	735455	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	92	933574	100.0	101.7	
70 2-Nitropropane	43	5.638	5.639	-0.001	98	298976	100.0	108.4	
71 Epichlorohydrin	57	5.736	5.736	0.000	98	530987	500.0	515.1	
76 2-Methylthiophene	97	6.114	6.114	0.000	98	1331946	50.0	54.4	
78 3-Methylthiophene	97	6.236	6.242	-0.006	100	1360724	50.0	52.7	
155 n-Butyl acetate	43	6.614	6.614	0.000	96	918833	50.0	53.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.077	7.077	0.000	94	395792	50.0	50.9	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	591066	50.0	54.8	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	95	528357	50.0	52.9	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	606470	50.0	54.0	
96 Cyclohexanone	55	8.028	8.034	-0.006	96	192006	500.0	533.5	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	450790	50.0	52.5	
108 Pentachloroethane	167	8.699	8.699	0.000	93	274319	50.0	55.3	
114 Dicyclopentadiene	66	9.010	9.010	0.000	96	2013970	50.0	53.5	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	99	1605010	50.0	55.0	
143 Benzyl chloride	91	9.150	9.150	0.000	99	861016	50.0	54.7	
118 1,3,5-Trichlorobenzene	180	10.150	10.150	0.000	98	769635	50.0	57.2	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	92	1057374	50.0	51.1	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

ADD CORP mix_00149	Amount Added:	25.00	Units: uL
2 MTP 2019_00064	Amount Added:	25.00	Units: uL
3 MTP 2019_00064	Amount Added:	25.00	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	25.00	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

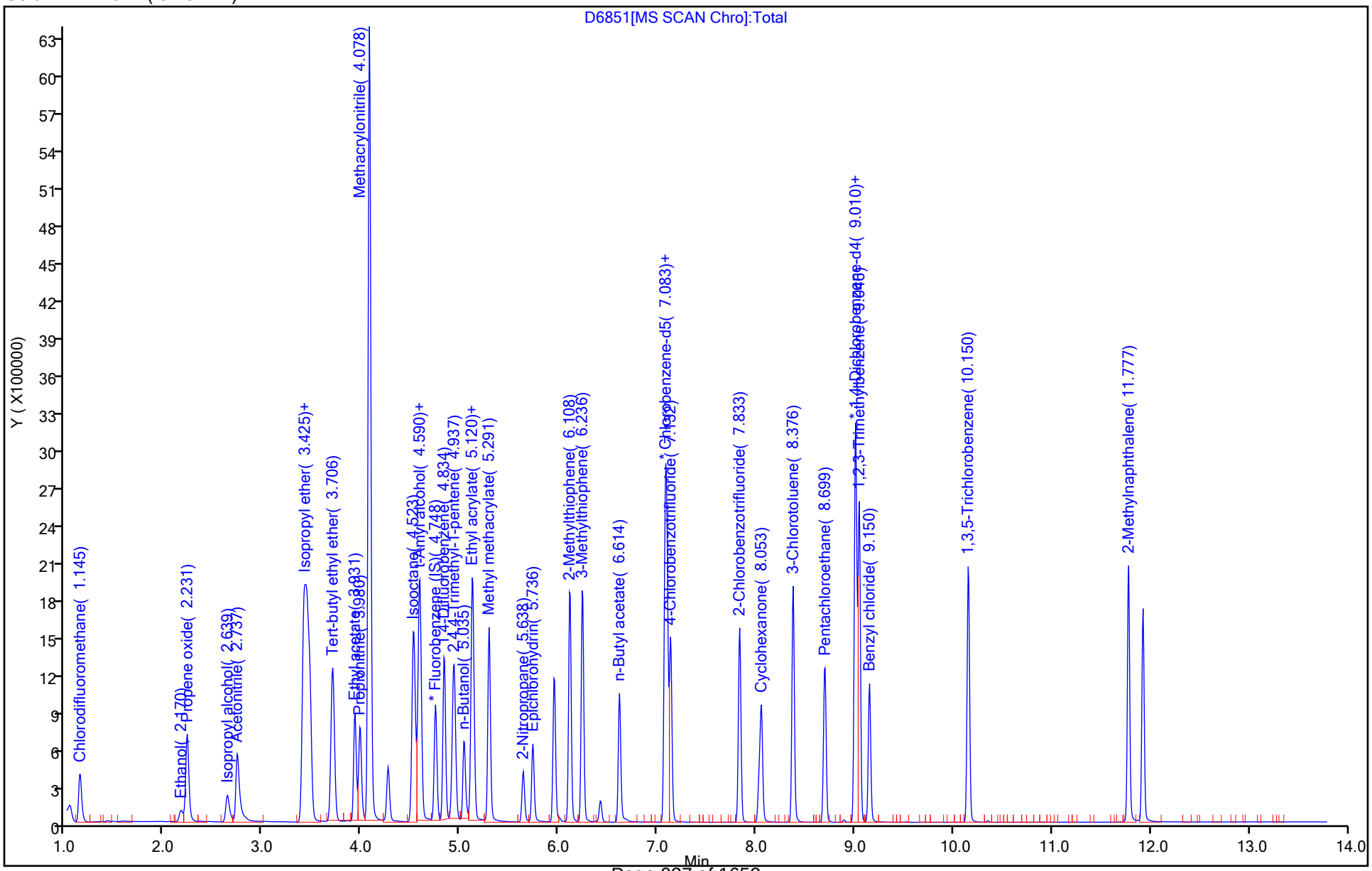
Report Date: 20-Sep-2024 11:50:26 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6851.d

Injection Date:	19-Sep-2024 21:43:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 13			Worklist Smp#:	30
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

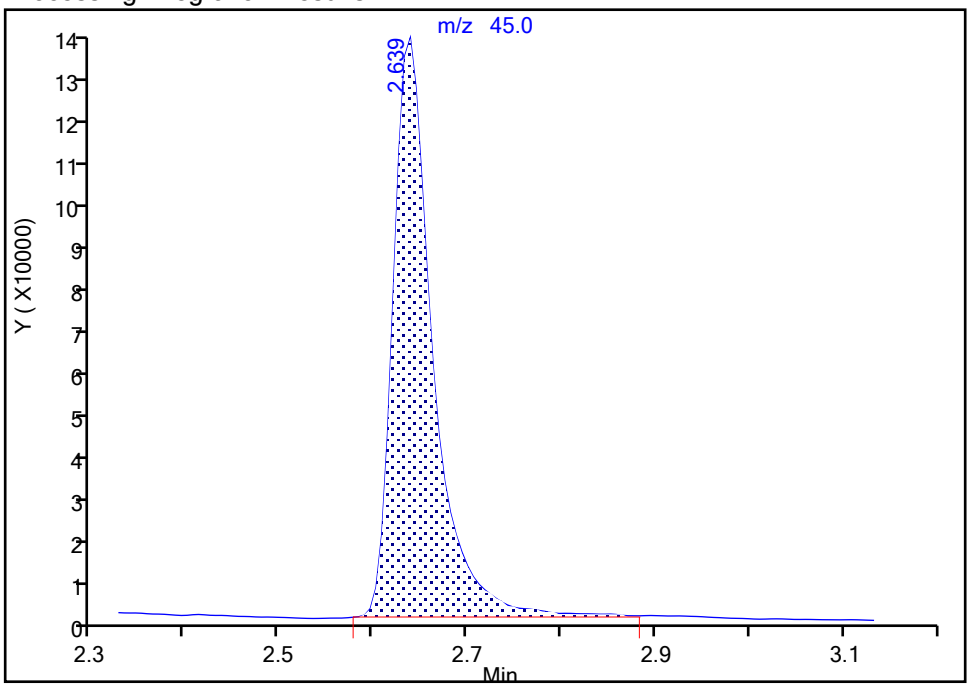
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Injection Date: 19-Sep-2024 21:43:30 Instrument ID: HP5975D
Lims ID: IC 13
Client ID:
Operator ID: LH ALS Bottle#: 39 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

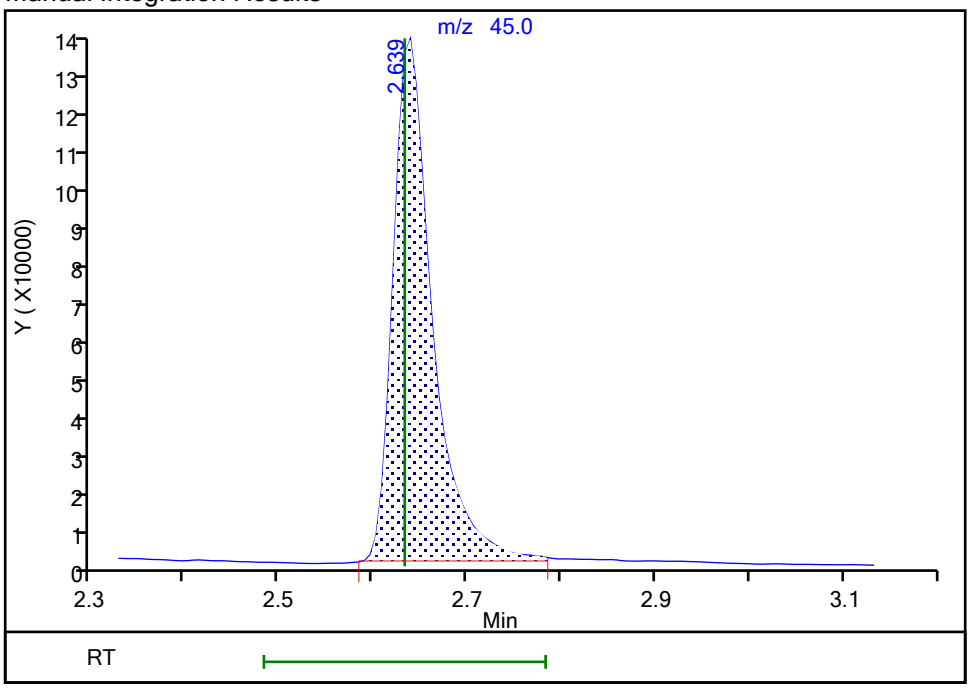
Processing Integration Results

RT: 2.64
Area: 404118
Amount: 623.7229
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 398905
Amount: 512.9049
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:31:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6852.d
Lims ID: IC 14
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Sep-2024 22:05:30 ALS Bottle#: 40 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 14
Misc. Info.: 480-0120124-031
Operator ID: LH Instrument ID: HP5975D
Sublist: chrom-D-8260*sub37

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 11:50:33 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:30:47

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	4.748	4.748	0.000	99	168618	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	87	338133	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	97	371934	25.0	25.0	
11 Chlorodifluoromethane	51	1.139	1.139	0.000	98	1220539	100.0	105.7	
141 Ethanol	45	2.170	2.164	0.006	97	419573	4000.0	3966.9	
19 Propene oxide	58	2.224	2.231	-0.007	95	1196824	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	99	862431	1000.0	1102.1	M
29 Acetonitrile	40	2.737	2.737	0.000	99	961199	1000.0	1137.4	
36 Isopropyl ether	45	3.413	3.413	0.000	97	3465859	100.0	105.9	
132 Halothane	117	3.432	3.432	0.000	90	611660	100.0	90.7	
40 2-Chloro-1,3-butadiene	53	3.444	3.450	-0.006	95	1310680	100.0	107.1	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	99	857963	500.0	585.3	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	99	2689935	100.0	102.3	
42 Ethyl acetate	43	3.931	3.932	-0.001	99	2453880	200.0	213.9	
46 Propionitrile	54	3.980	3.980	0.000	99	1719744	1000.0	1071.4	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	7275930	1000.0	929.1	
146 Isooctane	57	4.529	4.529	0.000	97	2897636	100.0	104.7	
140 t-Amyl alcohol	59	4.584	4.584	0.000	75	1035907	1000.0	1030.0	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	94	2602519	100.0	103.8	
1 1,4-Difluorobenzene	114	4.834	4.840	-0.006	95	2154063	100.0	106.5	
154 2,4,4-Trimethyl-1-pentene	55	4.931	4.931	0.000	98	587055	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	95	773888	2500.0	3592.5	
145 Ethyl acrylate	55	5.120	5.120	0.000	96	2807008	100.0	102.9	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	89	1302061	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	93	1950111	200.0	212.5	
70 2-Nitropropane	43	5.638	5.639	-0.001	98	650934	200.0	237.1	
71 Epichlorohydrin	57	5.736	5.736	0.000	98	1133351	1000.0	1100.1	
76 2-Methylthiophene	97	6.108	6.114	-0.006	98	2603702	100.0	106.9	
78 3-Methylthiophene	97	6.236	6.242	-0.006	100	2742983	100.0	106.7	
155 n-Butyl acetate	43	6.614	6.614	0.000	96	1858697	100.0	108.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
139 1-Chlorohexane	55	7.077	7.077	0.000	95	770537	100.0	100.3	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	1165424	100.0	108.5	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	97	1034985	100.0	104.1	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	1205719	100.0	107.8	
96 Cyclohexanone	55	8.034	8.034	0.000	96	393333	1000.0	1097.8	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	927133	100.0	108.5	
108 Pentachloroethane	167	8.699	8.699	0.000	93	553184	100.0	112.0	
114 Dicyclopentadiene	66	9.010	9.010	0.000	97	3942120	100.0	105.1	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	99	3131628	100.0	107.8	
143 Benzyl chloride	91	9.150	9.150	0.000	99	1757831	100.0	112.2	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	98	1493229	100.0	111.5	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	92	2073115	100.0	100.0	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

Reagents:

ADD CORP mix_00149	Amount Added:	50.00	Units: uL
2 MTP 2019_00064	Amount Added:	50.00	Units: uL
3 MTP 2019_00064	Amount Added:	50.00	Units: uL
3_MCP_Add_WRK_00456	Amount Added:	50.00	Units: uL
D 8260 IS_00024	Amount Added:	1.00	Units: uL

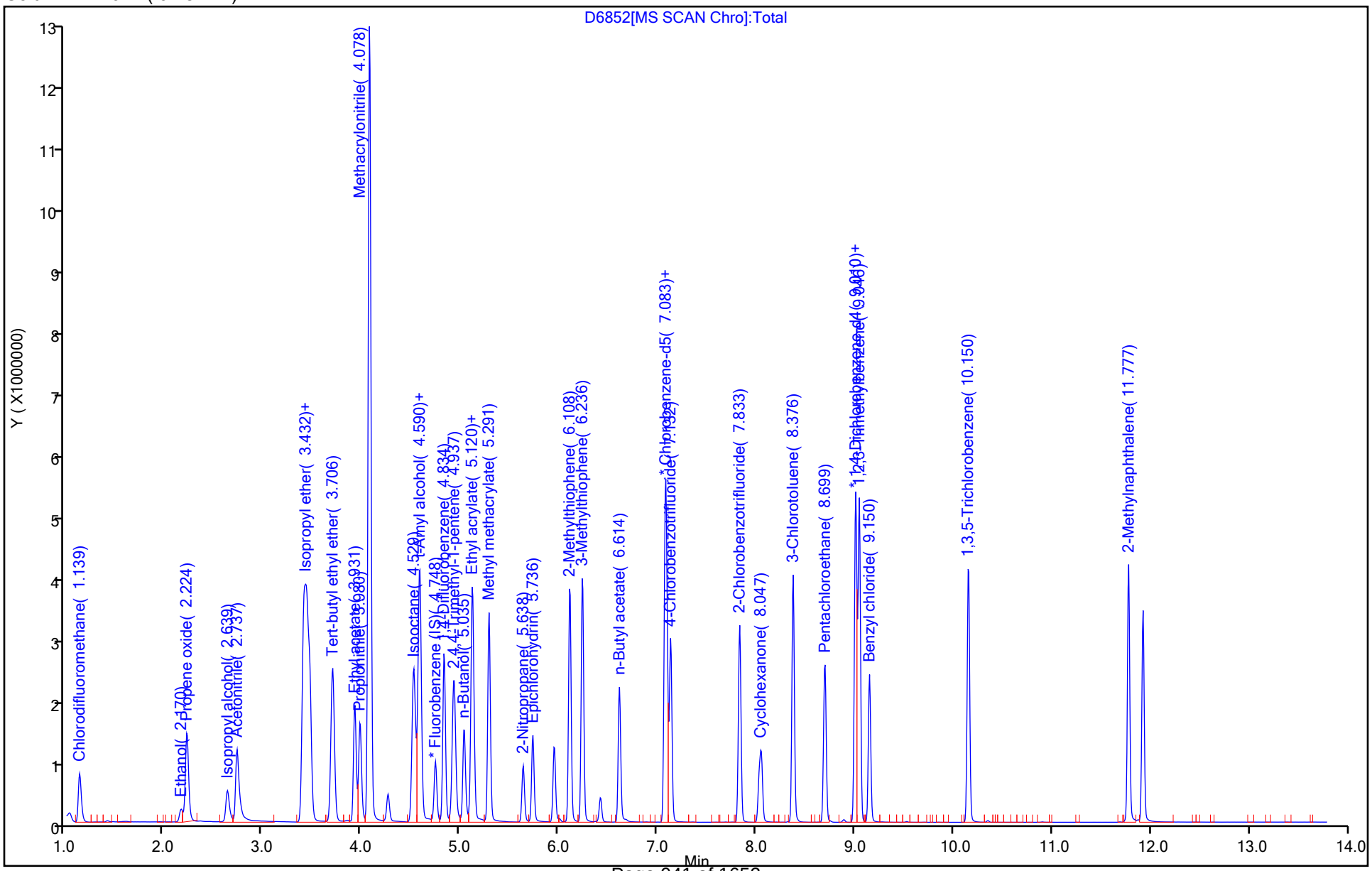
Report Date: 20-Sep-2024 11:50:33 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6852.d

Injection Date:	19-Sep-2024 22:05:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	IC 14			Worklist Smp#:	31
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	40
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

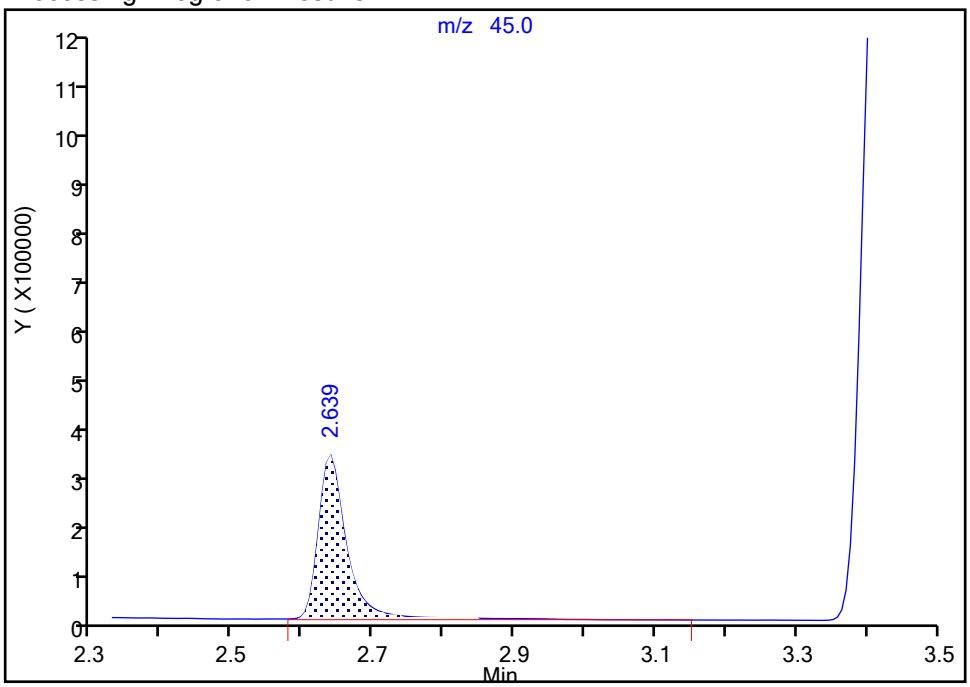
Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6852.d
Injection Date: 19-Sep-2024 22:05:30 Instrument ID: HP5975D
Lims ID: IC 14
Client ID:
Operator ID: LH ALS Bottle#: 40 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

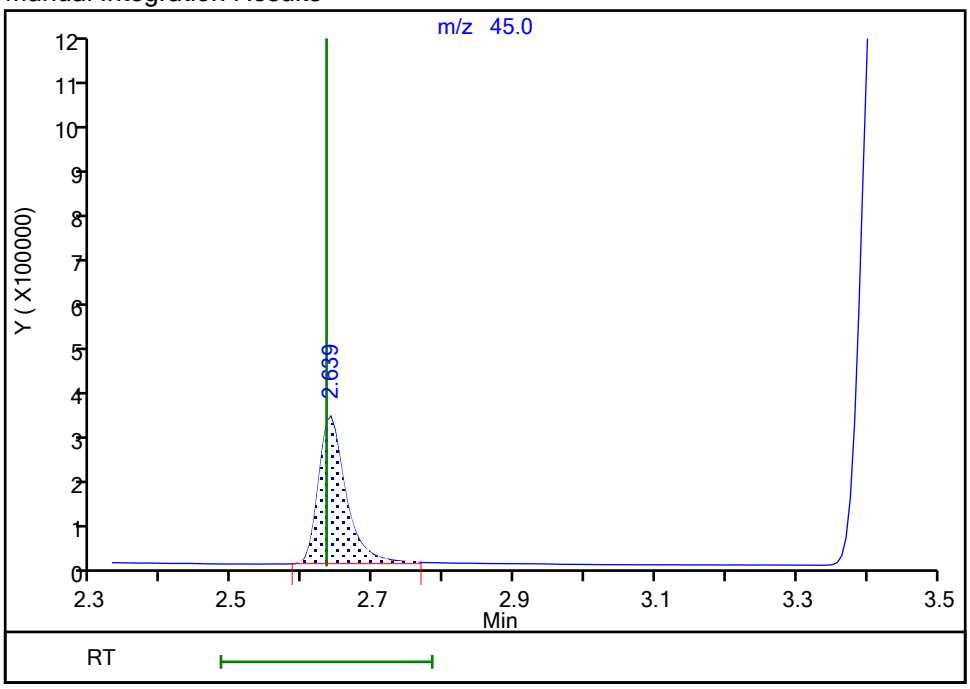
Processing Integration Results

RT: 2.64
Area: 932478
Amount: 1418.1825
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 862431
Amount: 1102.0846
Amount Units: ug/L



Reviewer: WLL8, 20-Sep-2024 11:30:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

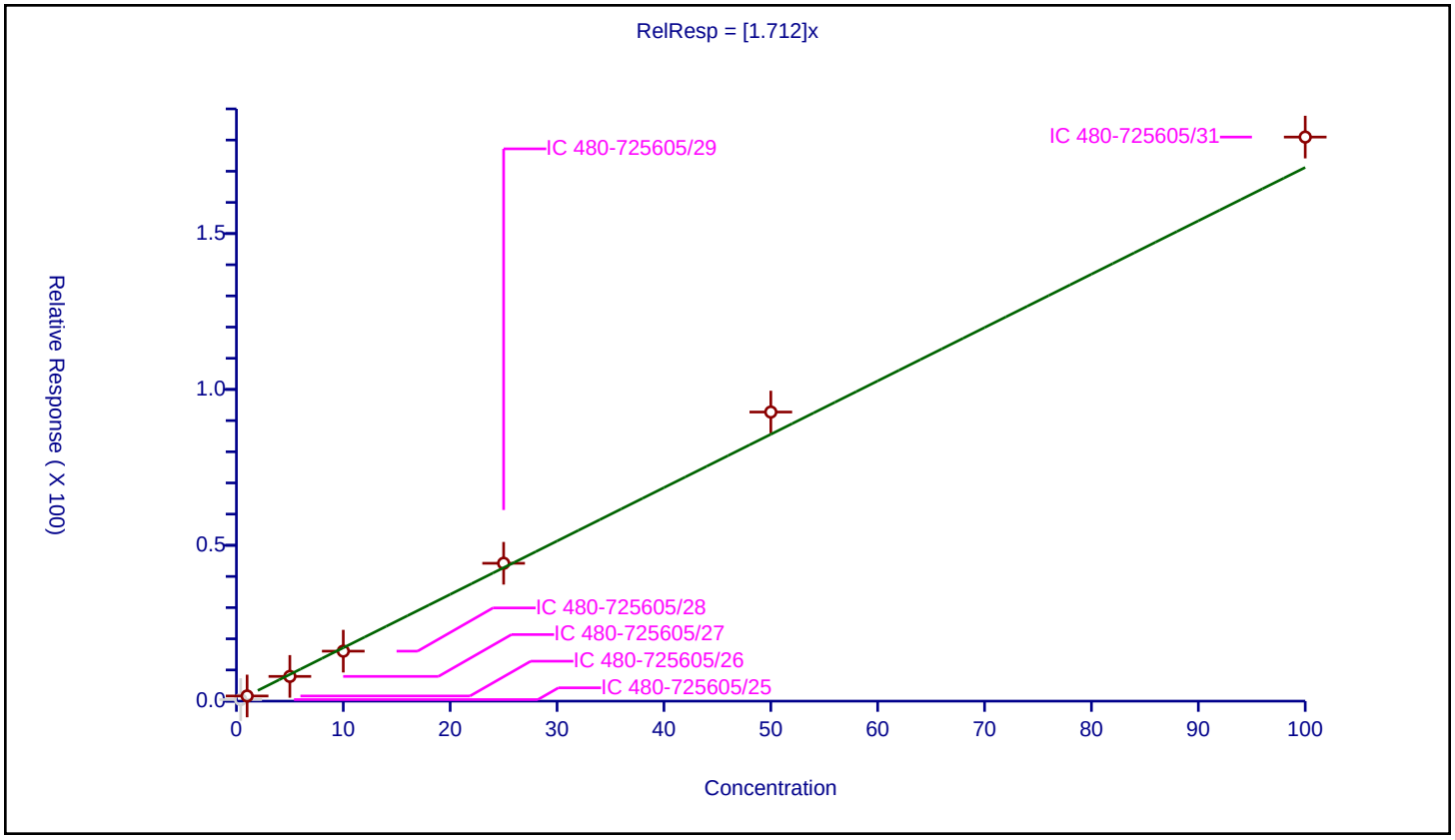
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.500459	25.0	189426.0	1.251148	N
2	IC 480-725605/26	1.0	1.649342	25.0	184998.0	1.649342	Y
3	IC 480-725605/27	5.0	7.930436	25.0	183773.0	1.586087	Y
4	IC 480-725605/28	10.0	16.036	25.0	183113.0	1.6036	Y
5	IC 480-725605/29	25.0	44.226897	25.0	173806.0	1.769076	Y
6	IC 480-725605/30	50.0	92.74921	25.0	168723.0	1.854984	Y
7	IC 480-725605/31	100.0	180.962145	25.0	168618.0	1.809621	Y



Calibration / Ethanol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

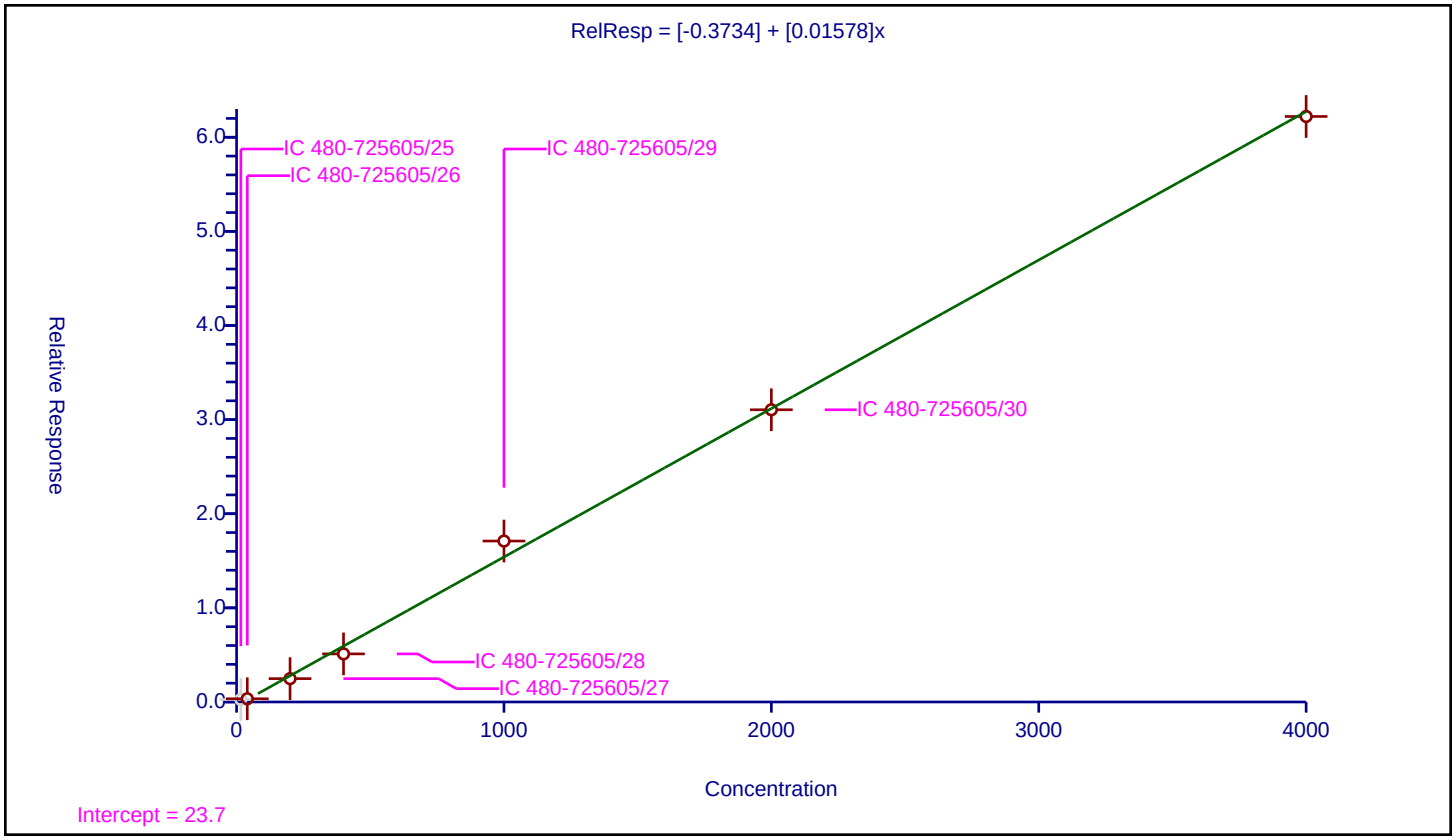
Curve Coefficients

Intercept:	-0.3734
Slope:	0.01578

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	16.0	0.264747	25.0	189426.0	0.016547	N
2	IC 480-725605/26	40.0	0.340409	25.0	184998.0	0.00851	Y
3	IC 480-725605/27	200.0	2.480642	25.0	183773.0	0.012403	Y
4	IC 480-725605/28	400.0	5.110369	25.0	183113.0	0.012776	Y
5	IC 480-725605/29	1000.0	17.099525	25.0	173806.0	0.0171	Y
6	IC 480-725605/30	2000.0	31.048375	25.0	168723.0	0.015524	Y
7	IC 480-725605/31	4000.0	62.207623	25.0	168618.0	0.015552	Y



Calibration / Isopropyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

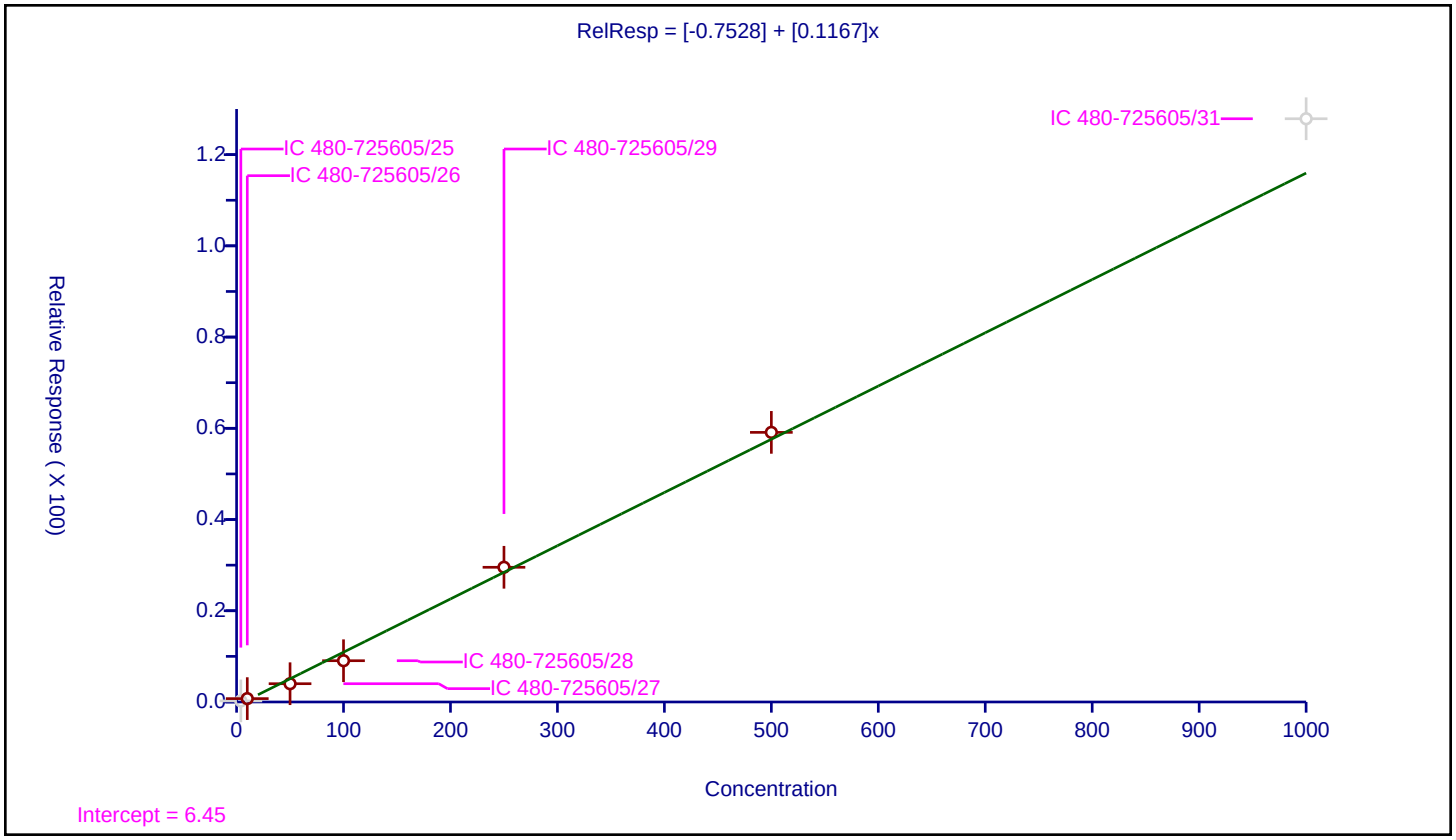
Curve Coefficients

Intercept:	-0.7528
Slope:	0.1167

Error Coefficients

Relative Standard Deviation:	21.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.23822	25.0	189426.0	0.059555	N
2	IC 480-725605/26	10.0	0.741495	25.0	184998.0	0.074149	Y
3	IC 480-725605/27	50.0	4.007798	25.0	183773.0	0.080156	Y
4	IC 480-725605/28	100.0	9.049603	25.0	183113.0	0.090496	Y
5	IC 480-725605/29	250.0	29.533359	25.0	173806.0	0.118133	Y
6	IC 480-725605/30	500.0	59.106494	25.0	168723.0	0.118213	Y
7	IC 480-725605/31	1000.0	127.867576	25.0	168618.0	0.127868	N



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

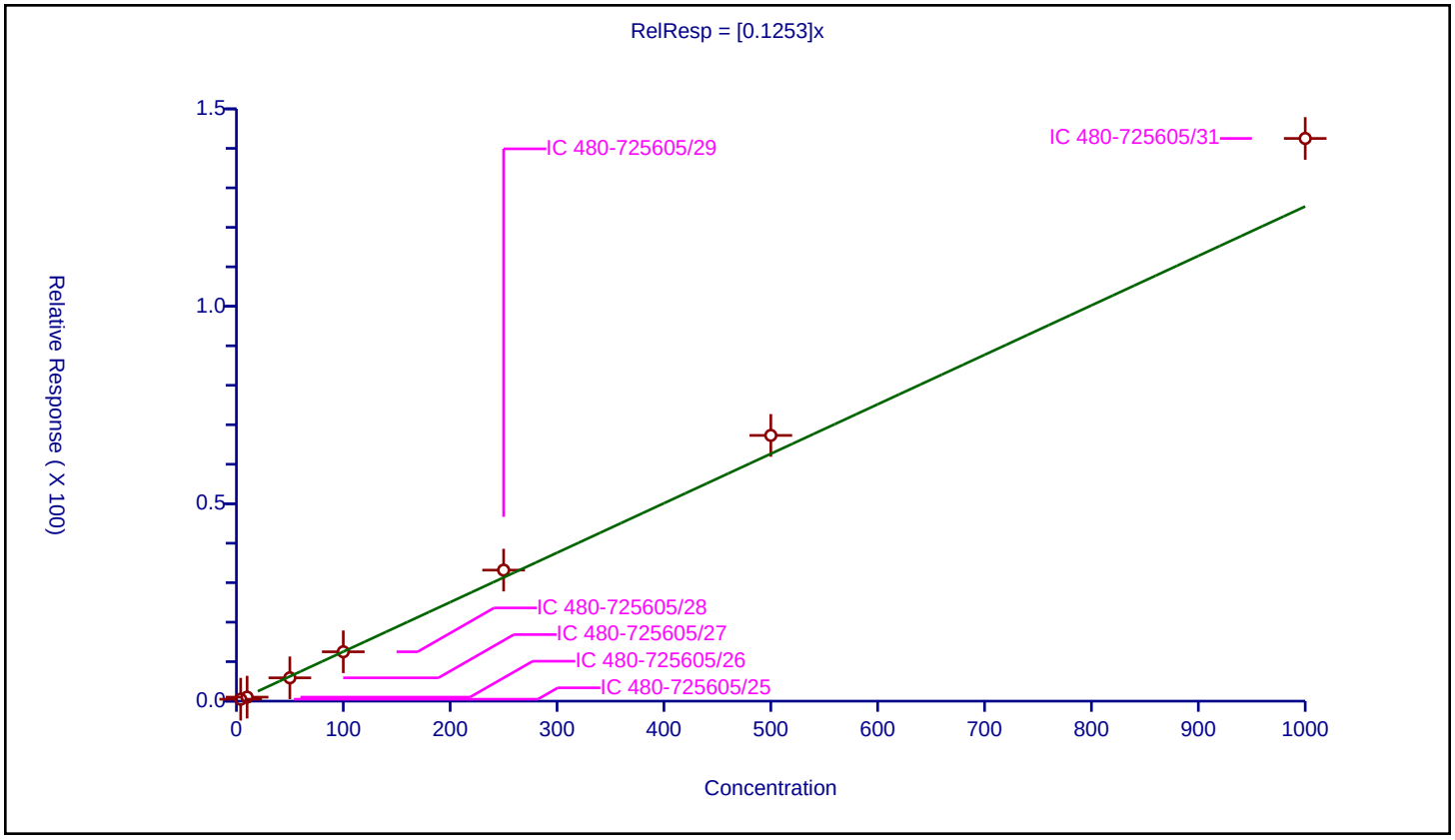
Curve Coefficients

Intercept:	0
Slope:	0.1253

Error Coefficients

Relative Standard Deviation:	10.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.489769	25.0	189426.0	0.122442	Y
2	IC 480-725605/26	10.0	1.015957	25.0	184998.0	0.101596	Y
3	IC 480-725605/27	50.0	5.90756	25.0	183773.0	0.118151	Y
4	IC 480-725605/28	100.0	12.502662	25.0	183113.0	0.125027	Y
5	IC 480-725605/29	250.0	33.1847	25.0	173806.0	0.132739	Y
6	IC 480-725605/30	500.0	67.303954	25.0	168723.0	0.134608	Y
7	IC 480-725605/31	1000.0	142.511327	25.0	168618.0	0.142511	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

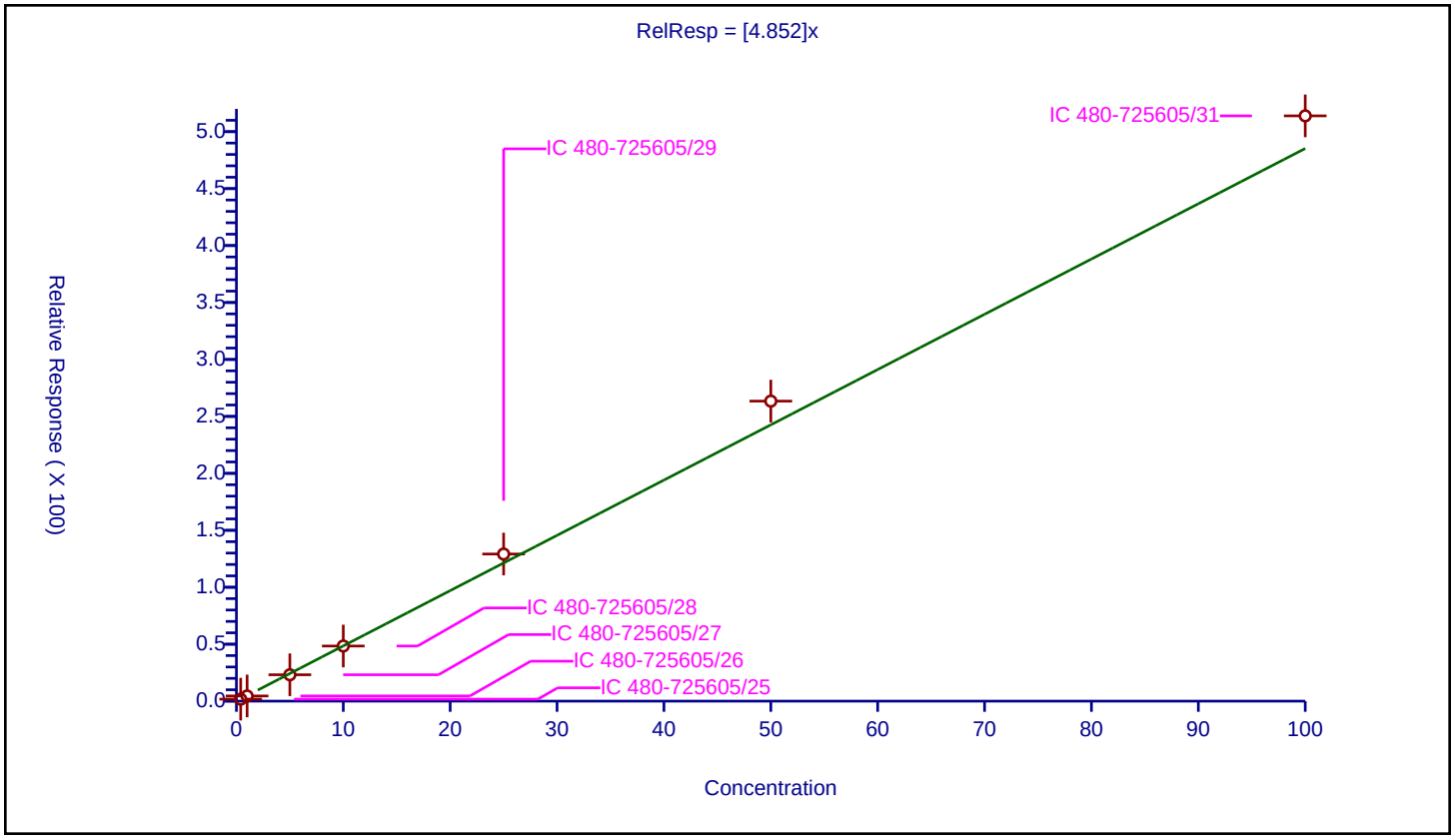
Curve Coefficients

Intercept:	0
Slope:	4.852

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.751476	25.0	189426.0	4.378689	Y
2	IC 480-725605/26	1.0	4.541536	25.0	184998.0	4.541536	Y
3	IC 480-725605/27	5.0	23.155061	25.0	183773.0	4.631012	Y
4	IC 480-725605/28	10.0	48.405766	25.0	183113.0	4.840577	Y
5	IC 480-725605/29	25.0	129.161105	25.0	173806.0	5.166444	Y
6	IC 480-725605/30	50.0	263.409997	25.0	168723.0	5.2682	Y
7	IC 480-725605/31	100.0	513.862547	25.0	168618.0	5.138625	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

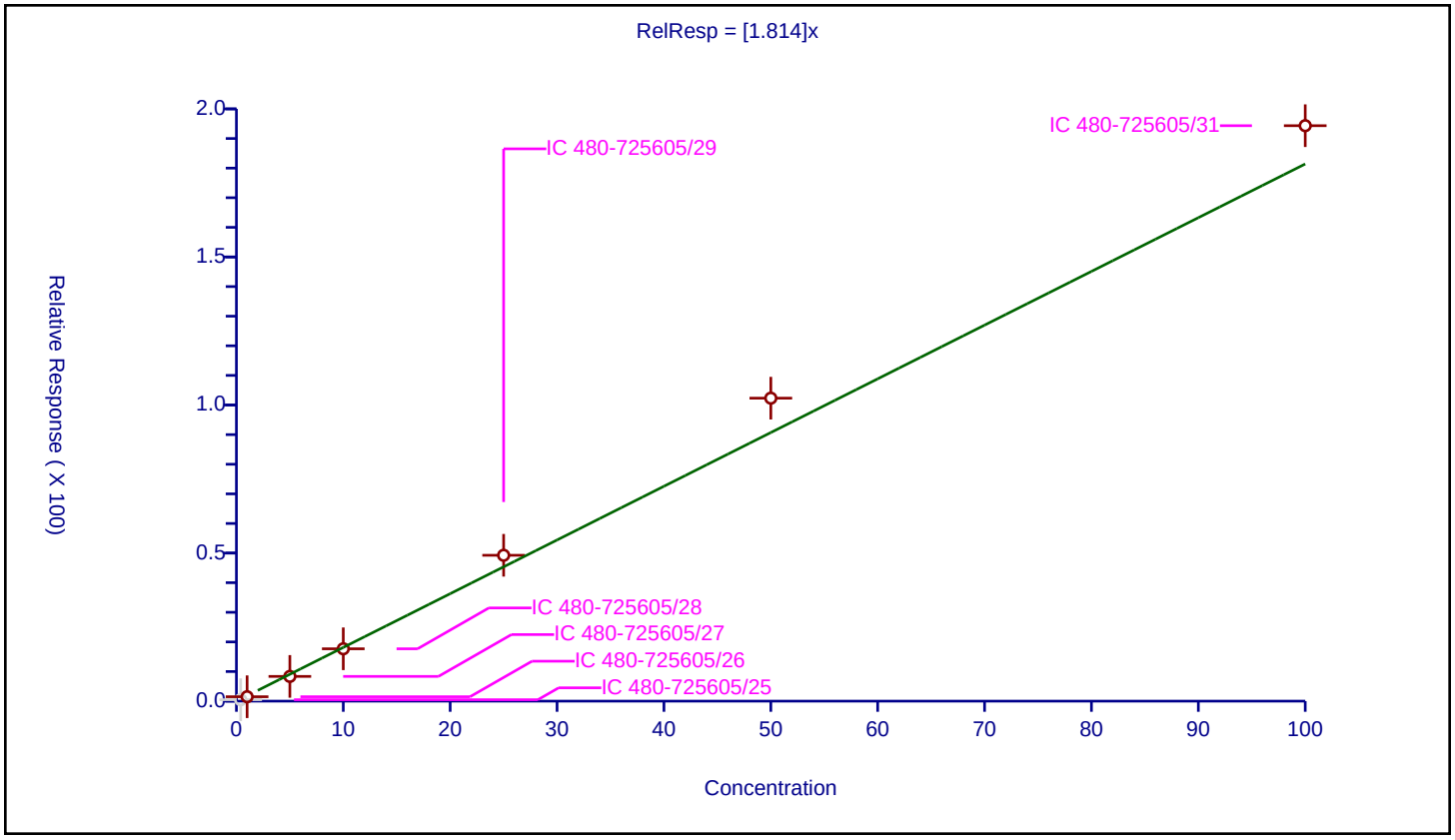
Curve Coefficients

Intercept:	0
Slope:	1.814

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.481323	25.0	189426.0	1.203306	N
2	IC 480-725605/26	1.0	1.485962	25.0	184998.0	1.485962	Y
3	IC 480-725605/27	5.0	8.350791	25.0	183773.0	1.670158	Y
4	IC 480-725605/28	10.0	17.681295	25.0	183113.0	1.76813	Y
5	IC 480-725605/29	25.0	49.254916	25.0	173806.0	1.970197	Y
6	IC 480-725605/30	50.0	102.309258	25.0	168723.0	2.046185	Y
7	IC 480-725605/31	100.0	194.326822	25.0	168618.0	1.943268	Y



Calibration / 1,1-Dimethoxyethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

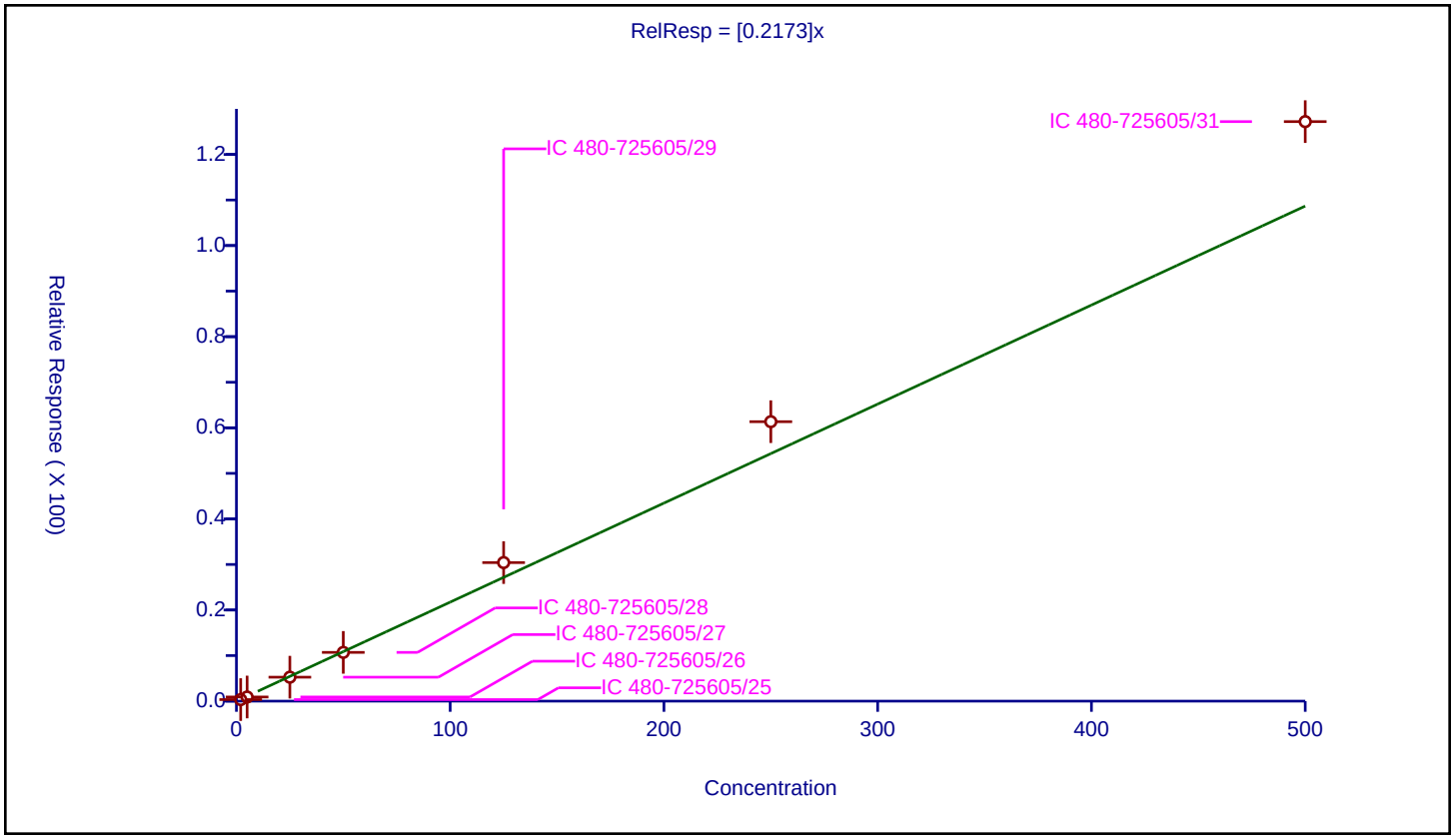
Curve Coefficients

Intercept:	0
Slope:	0.2173

Error Coefficients

Relative Standard Deviation:	14.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	2.0	0.342746	25.0	189426.0	0.171373	Y
2	IC 480-725605/26	5.0	0.911767	25.0	184998.0	0.182353	Y
3	IC 480-725605/27	25.0	5.261518	25.0	183773.0	0.210461	Y
4	IC 480-725605/28	50.0	10.7035	25.0	183113.0	0.21407	Y
5	IC 480-725605/29	125.0	30.417391	25.0	173806.0	0.243339	Y
6	IC 480-725605/30	250.0	61.341518	25.0	168723.0	0.245366	Y
7	IC 480-725605/31	500.0	127.205132	25.0	168618.0	0.25441	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

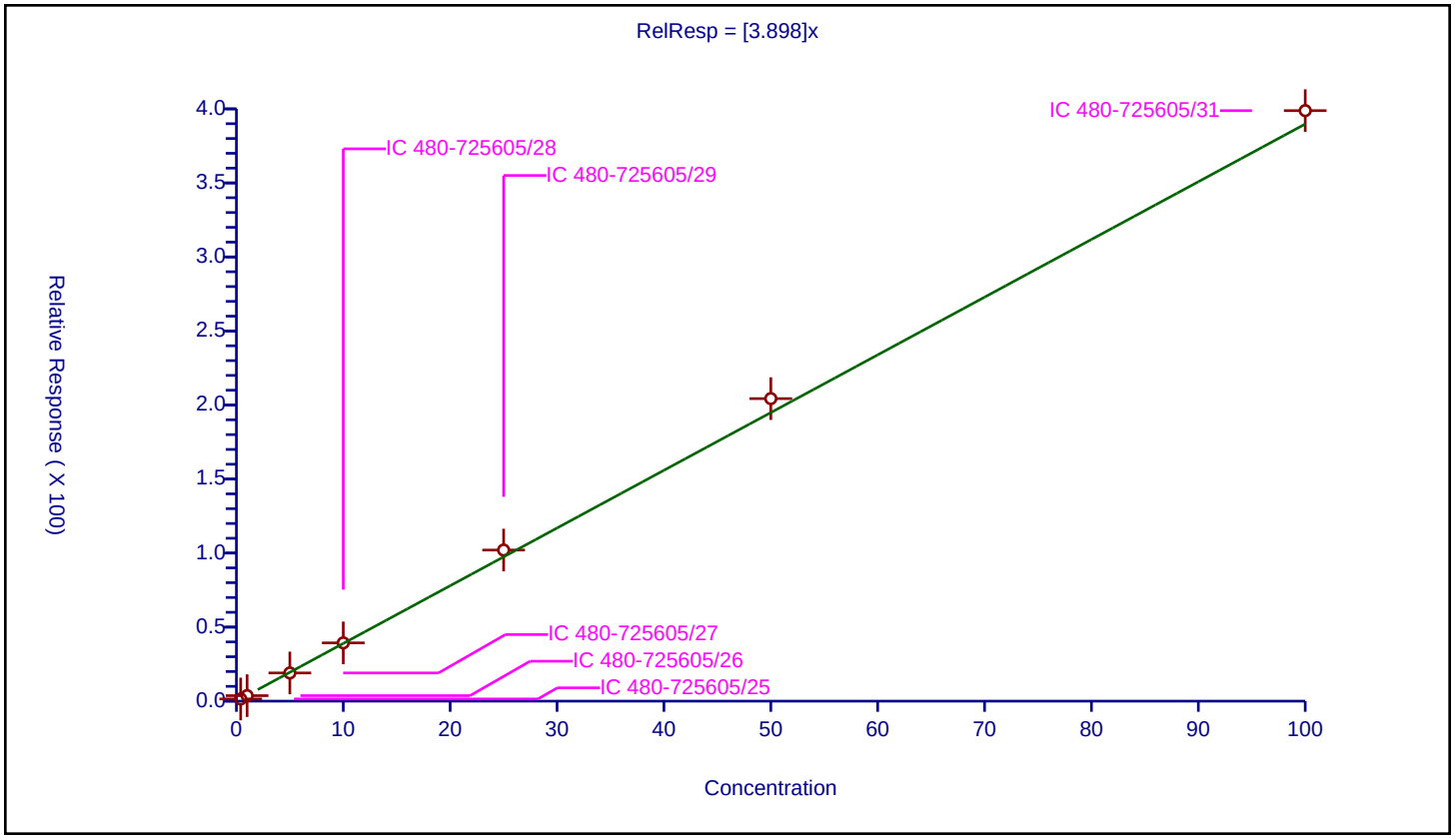
Curve Coefficients

Intercept:	0
Slope:	3.898

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.467724	25.0	189426.0	3.669309	Y
2	IC 480-725605/26	1.0	3.713013	25.0	184998.0	3.713013	Y
3	IC 480-725605/27	5.0	19.047276	25.0	183773.0	3.809455	Y
4	IC 480-725605/28	10.0	39.352203	25.0	183113.0	3.93522	Y
5	IC 480-725605/29	25.0	102.046678	25.0	173806.0	4.081867	Y
6	IC 480-725605/30	50.0	204.329433	25.0	168723.0	4.086589	Y
7	IC 480-725605/31	100.0	398.820855	25.0	168618.0	3.988209	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

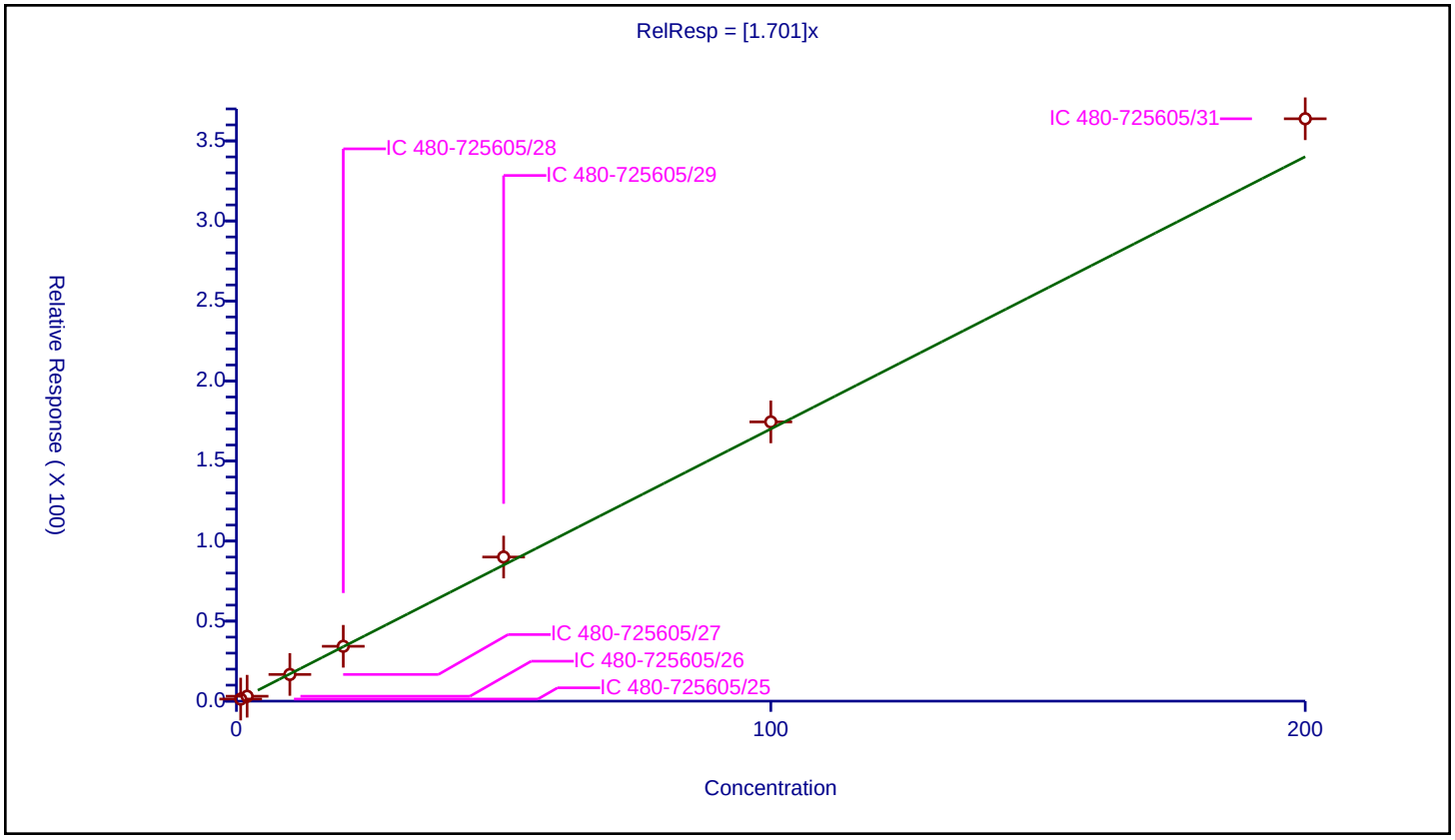
Curve Coefficients

Intercept:	0
Slope:	1.701

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.8	1.302356	25.0	189426.0	1.627944	Y
2	IC 480-725605/26	2.0	3.063952	25.0	184998.0	1.531976	Y
3	IC 480-725605/27	10.0	16.672471	25.0	183773.0	1.667247	Y
4	IC 480-725605/28	20.0	34.266955	25.0	183113.0	1.713348	Y
5	IC 480-725605/29	50.0	90.021633	25.0	173806.0	1.800433	Y
6	IC 480-725605/30	100.0	174.453987	25.0	168723.0	1.74454	Y
7	IC 480-725605/31	200.0	363.822368	25.0	168618.0	1.819112	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

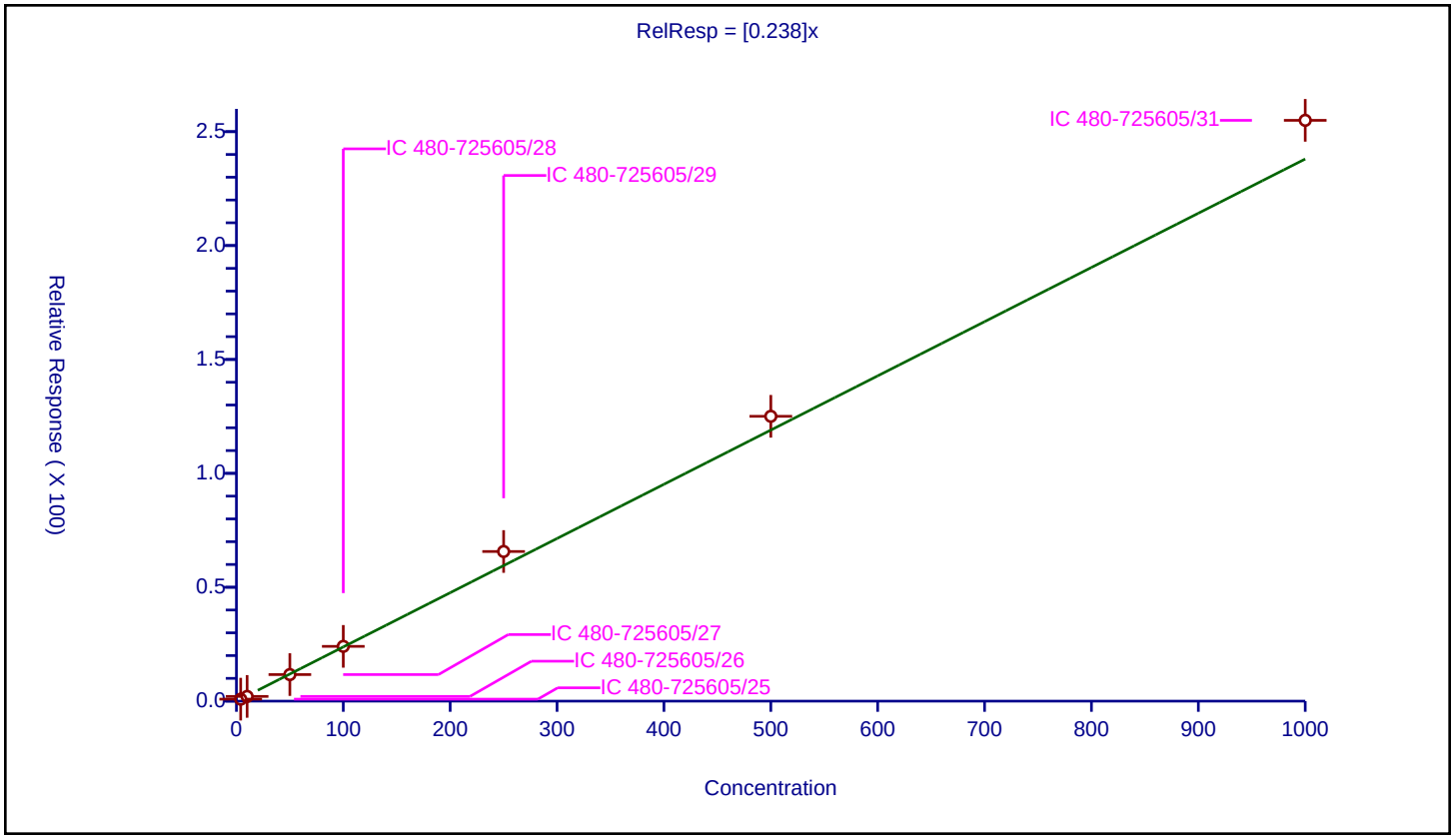
Curve Coefficients

Intercept:	0
Slope:	0.238

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.865509	25.0	189426.0	0.216377	Y
2	IC 480-725605/26	10.0	2.080698	25.0	184998.0	0.20807	Y
3	IC 480-725605/27	50.0	11.658813	25.0	183773.0	0.233176	Y
4	IC 480-725605/28	100.0	24.048129	25.0	183113.0	0.240481	Y
5	IC 480-725605/29	250.0	65.693503	25.0	173806.0	0.262774	Y
6	IC 480-725605/30	500.0	125.040451	25.0	168723.0	0.250081	Y
7	IC 480-725605/31	1000.0	254.976337	25.0	168618.0	0.254976	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

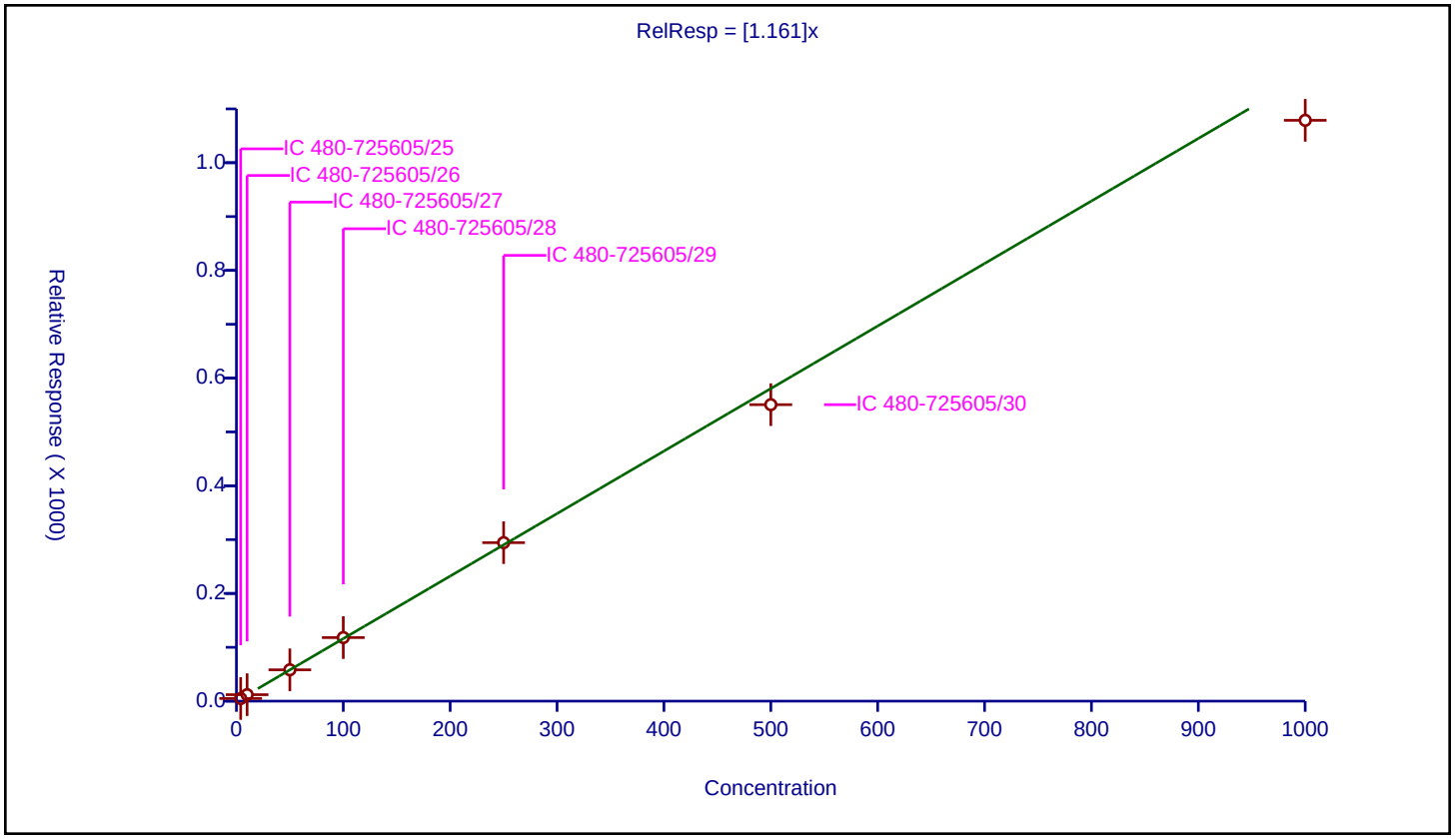
Curve Coefficients

Intercept:	0
Slope:	1.161

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	4.913792	25.0	189426.0	1.228448	Y
2	IC 480-725605/26	10.0	11.975535	25.0	184998.0	1.197553	Y
3	IC 480-725605/27	50.0	58.203055	25.0	183773.0	1.164061	Y
4	IC 480-725605/28	100.0	118.032581	25.0	183113.0	1.180326	Y
5	IC 480-725605/29	250.0	294.359228	25.0	173806.0	1.177437	Y
6	IC 480-725605/30	500.0	550.673145	25.0	168723.0	1.101346	Y
7	IC 480-725605/31	1000.0	1078.759385	25.0	168618.0	1.078759	Y



Calibration / Isooctane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

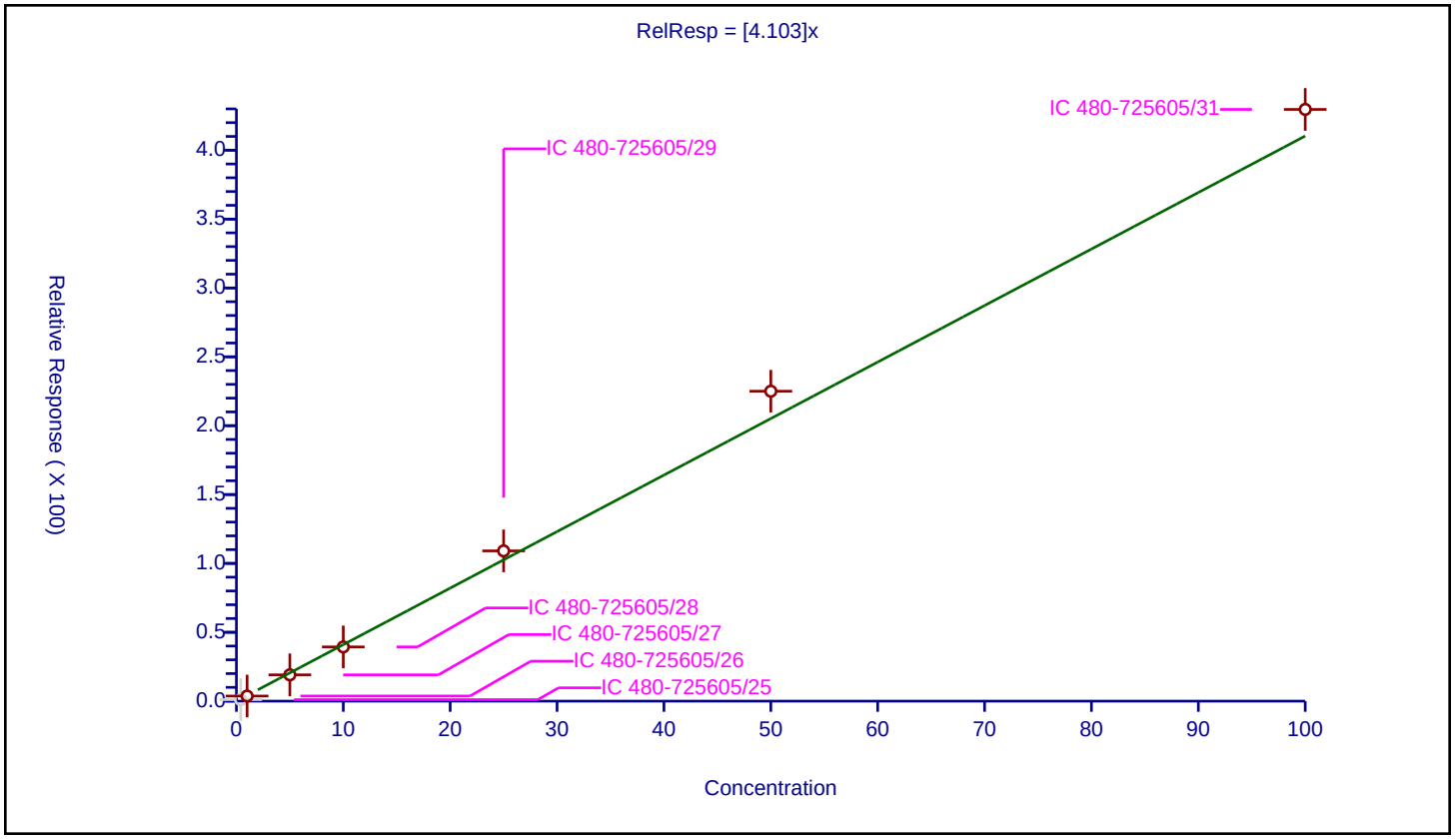
Curve Coefficients

Intercept:	0
Slope:	4.103

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.092643	25.0	189426.0	2.731608	N
2	IC 480-725605/26	1.0	3.703554	25.0	184998.0	3.703554	Y
3	IC 480-725605/27	5.0	19.094345	25.0	183773.0	3.818869	Y
4	IC 480-725605/28	10.0	39.360941	25.0	183113.0	3.936094	Y
5	IC 480-725605/29	25.0	109.084842	25.0	173806.0	4.363394	Y
6	IC 480-725605/30	50.0	225.01867	25.0	168723.0	4.500373	Y
7	IC 480-725605/31	100.0	429.615462	25.0	168618.0	4.296155	Y



Calibration / t-Amyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

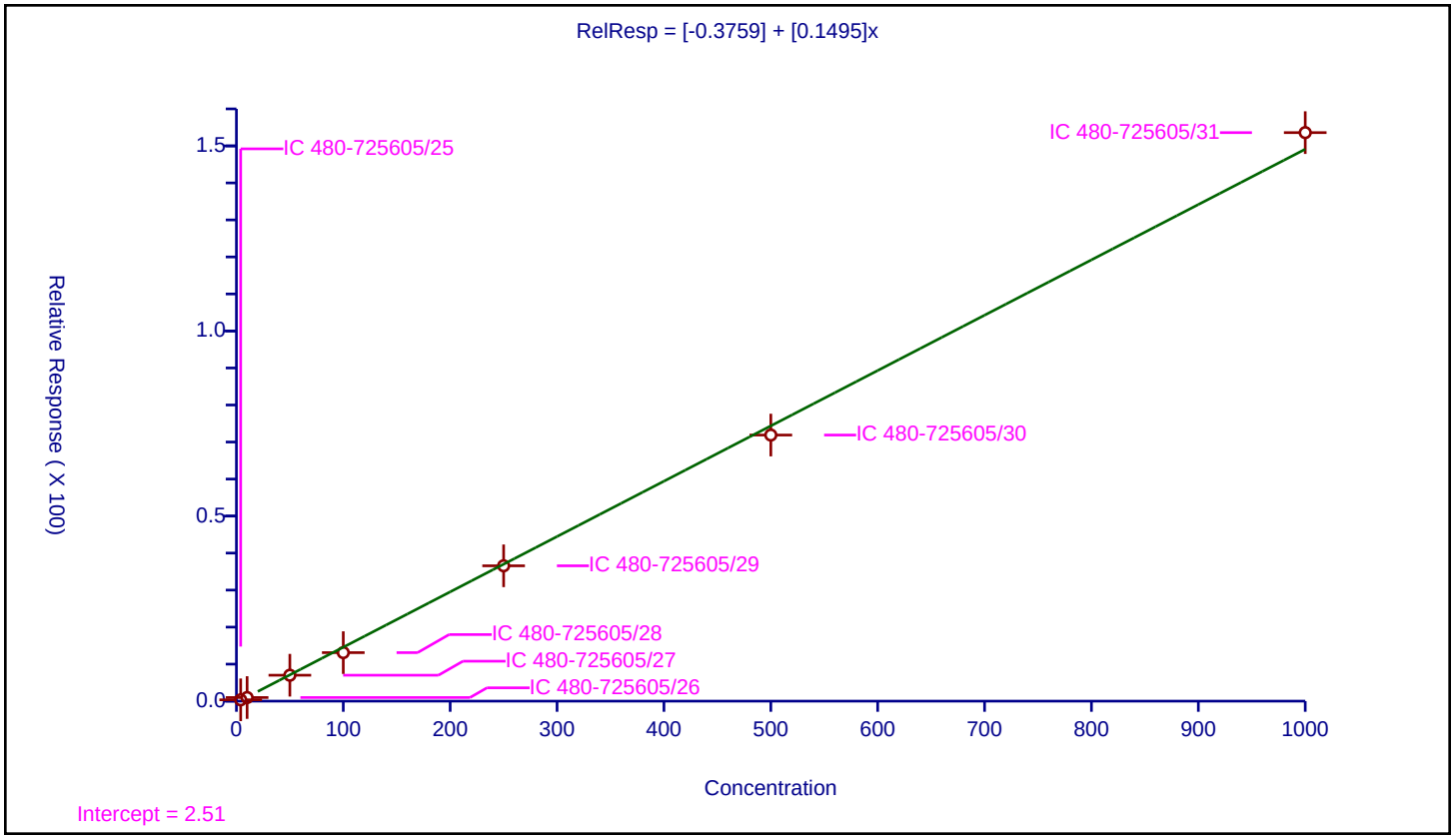
Curve Coefficients

Intercept:	-0.3759
Slope:	0.1495

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.356076	25.0	189426.0	0.089019	Y
2	IC 480-725605/26	10.0	0.971497	25.0	184998.0	0.09715	Y
3	IC 480-725605/27	50.0	7.001028	25.0	183773.0	0.140021	Y
4	IC 480-725605/28	100.0	13.109255	25.0	183113.0	0.131093	Y
5	IC 480-725605/29	250.0	36.563899	25.0	173806.0	0.146256	Y
6	IC 480-725605/30	500.0	71.887502	25.0	168723.0	0.143775	Y
7	IC 480-725605/31	1000.0	153.587844	25.0	168618.0	0.153588	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

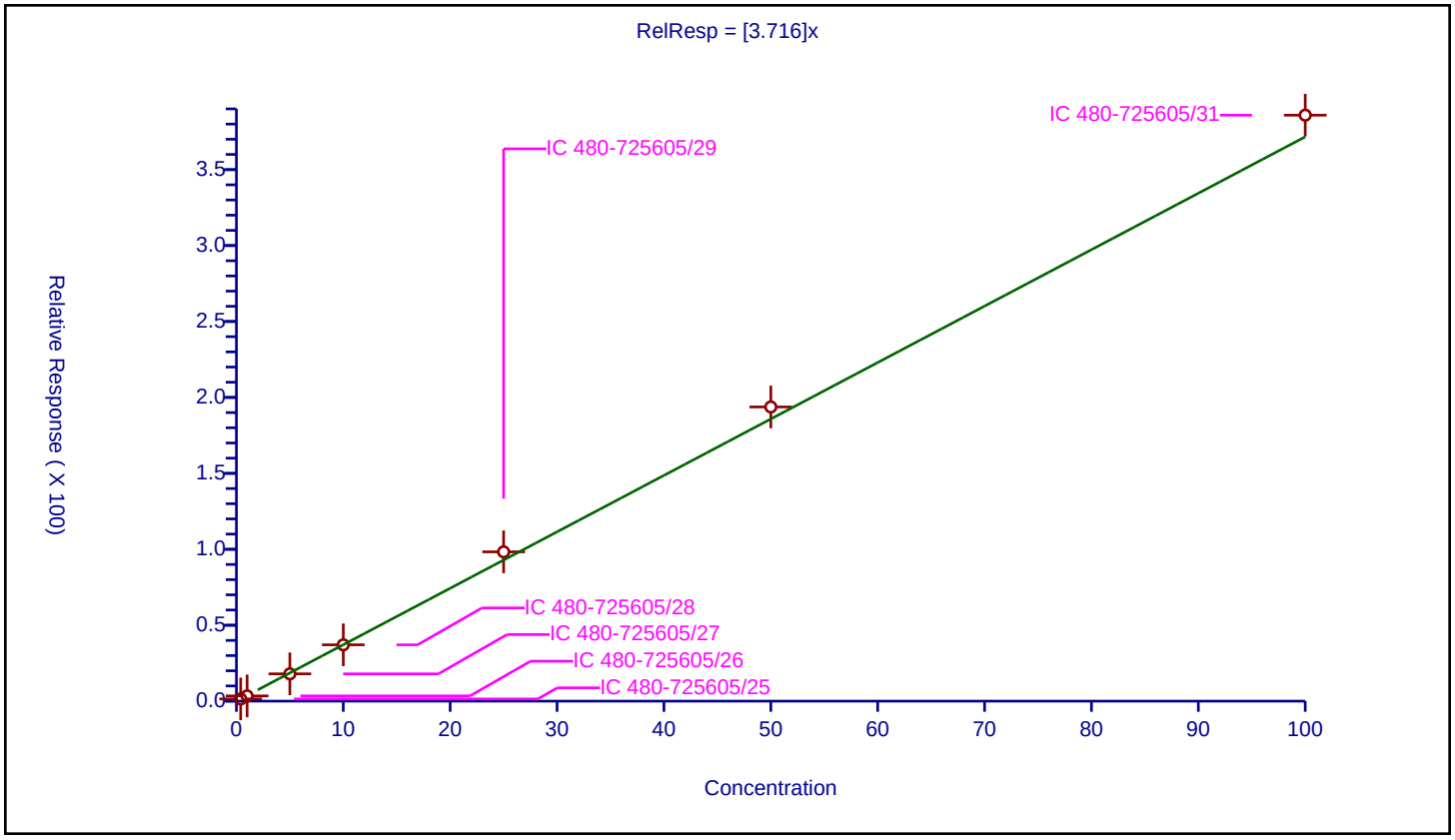
Curve Coefficients

Intercept:	0
Slope:	3.716

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.44212	25.0	189426.0	3.6053	Y
2	IC 480-725605/26	1.0	3.440713	25.0	184998.0	3.440713	Y
3	IC 480-725605/27	5.0	17.966459	25.0	183773.0	3.593292	Y
4	IC 480-725605/28	10.0	37.077378	25.0	183113.0	3.707738	Y
5	IC 480-725605/29	25.0	98.308603	25.0	173806.0	3.932344	Y
6	IC 480-725605/30	50.0	193.717069	25.0	168723.0	3.874341	Y
7	IC 480-725605/31	100.0	385.860199	25.0	168618.0	3.858602	Y



Calibration / 1,4-Difluorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

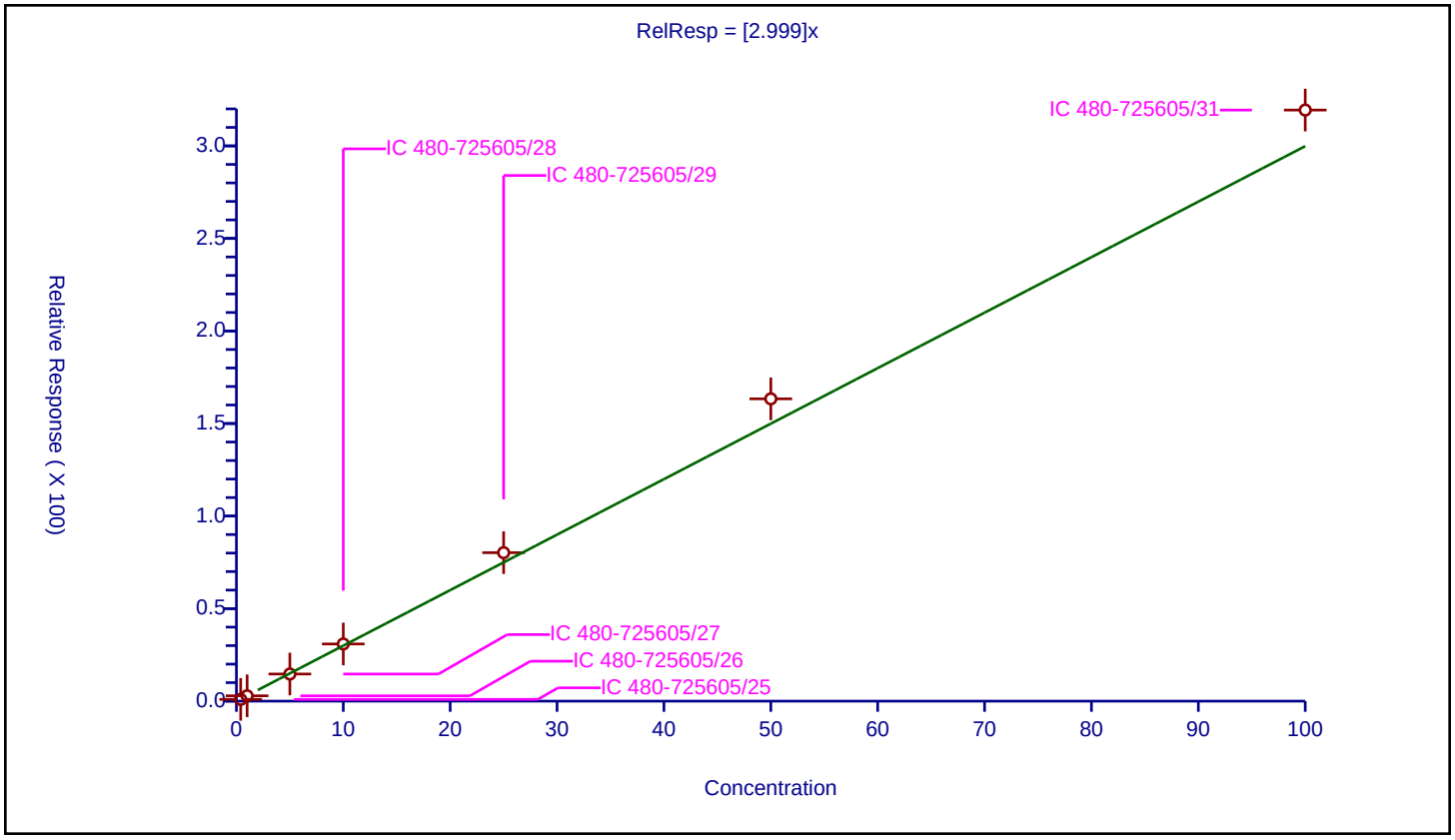
Curve Coefficients

Intercept:	0
Slope:	2.999

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.963701	25.0	189426.0	2.409252	Y
2	IC 480-725605/26	1.0	2.890977	25.0	184998.0	2.890977	Y
3	IC 480-725605/27	5.0	14.657349	25.0	183773.0	2.93147	Y
4	IC 480-725605/28	10.0	30.884345	25.0	183113.0	3.088434	Y
5	IC 480-725605/29	25.0	80.226085	25.0	173806.0	3.209043	Y
6	IC 480-725605/30	50.0	163.349099	25.0	168723.0	3.266982	Y
7	IC 480-725605/31	100.0	319.370263	25.0	168618.0	3.193703	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

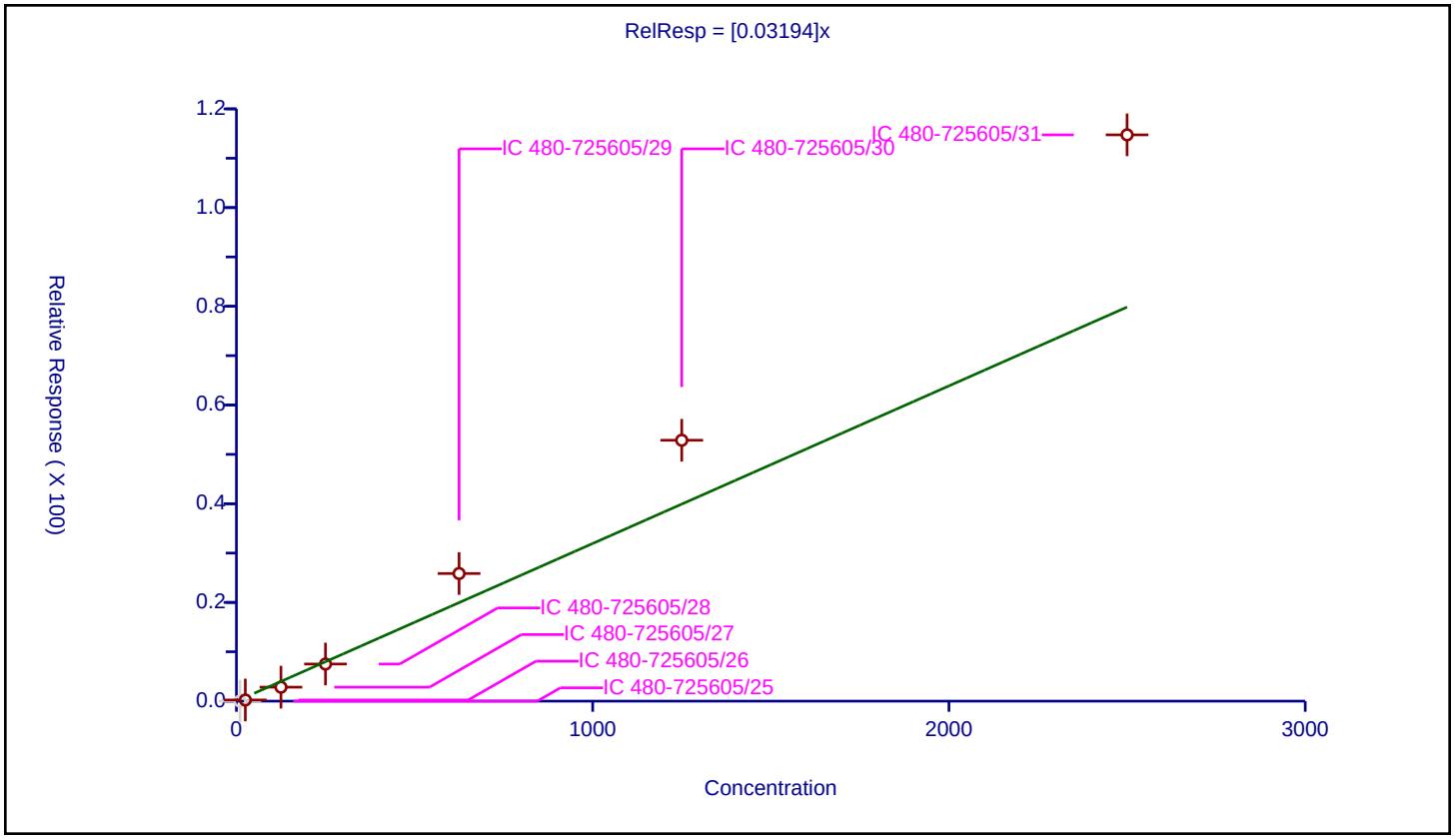
Curve Coefficients

Intercept:	0
Slope:	0.03194

Error Coefficients

Relative Standard Deviation:	44.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	10.0	0.0	25.0	189426.0	0.0	N
2	IC 480-725605/26	25.0	0.233381	25.0	184998.0	0.009335	Y
3	IC 480-725605/27	125.0	2.831754	25.0	183773.0	0.022654	Y
4	IC 480-725605/28	250.0	7.522268	25.0	183113.0	0.030089	Y
5	IC 480-725605/29	625.0	25.855264	25.0	173806.0	0.041368	Y
6	IC 480-725605/30	1250.0	52.86031	25.0	168723.0	0.042288	Y
7	IC 480-725605/31	2500.0	114.739826	25.0	168618.0	0.045896	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

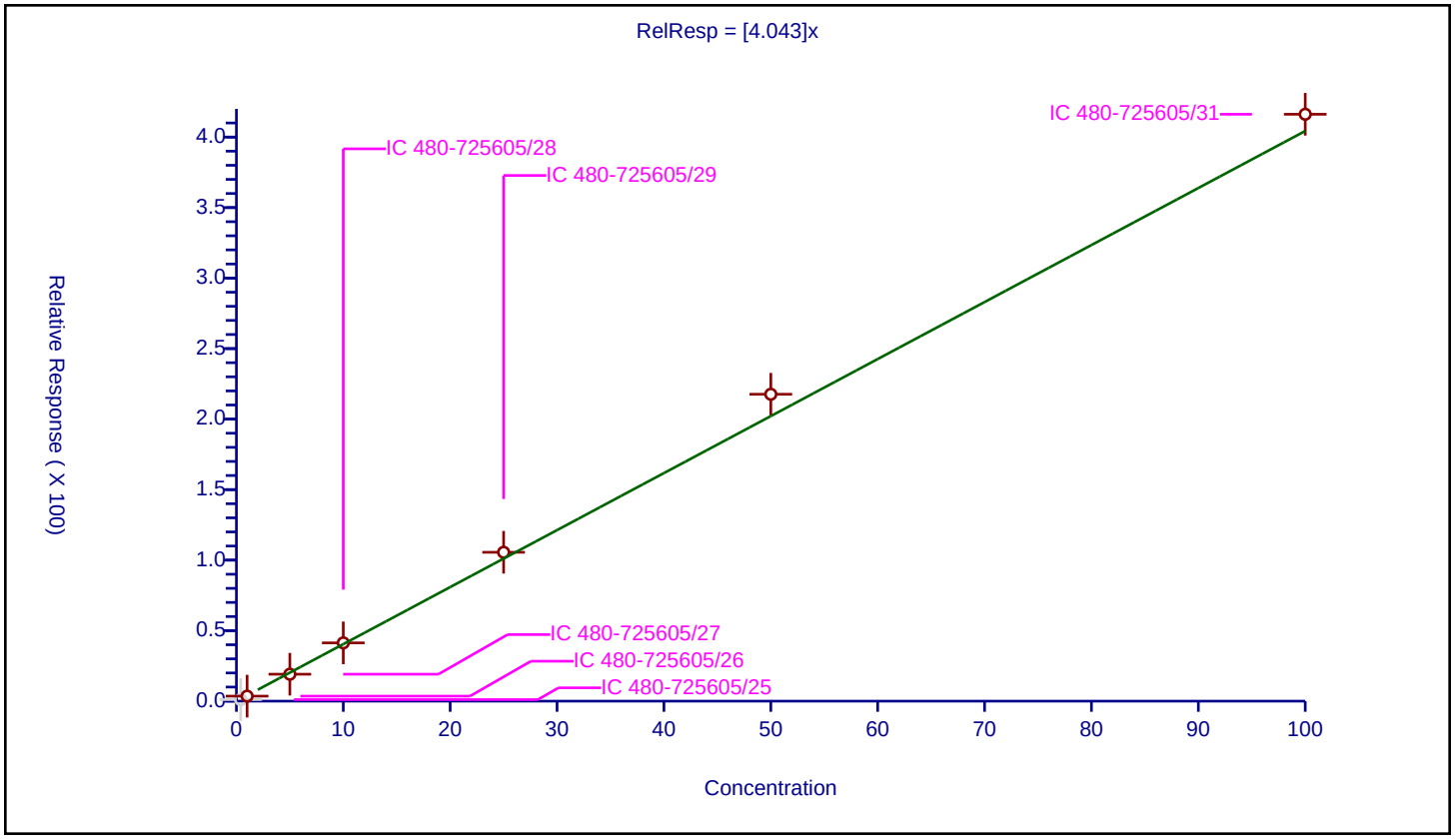
Curve Coefficients

Intercept:	0
Slope:	4.043

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.096338	25.0	189426.0	2.740846	N
2	IC 480-725605/26	1.0	3.567336	25.0	184998.0	3.567336	Y
3	IC 480-725605/27	5.0	19.105772	25.0	183773.0	3.821154	Y
4	IC 480-725605/28	10.0	41.323937	25.0	183113.0	4.132394	Y
5	IC 480-725605/29	25.0	105.57662	25.0	173806.0	4.223065	Y
6	IC 480-725605/30	50.0	217.631414	25.0	168723.0	4.352628	Y
7	IC 480-725605/31	100.0	416.178581	25.0	168618.0	4.161786	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

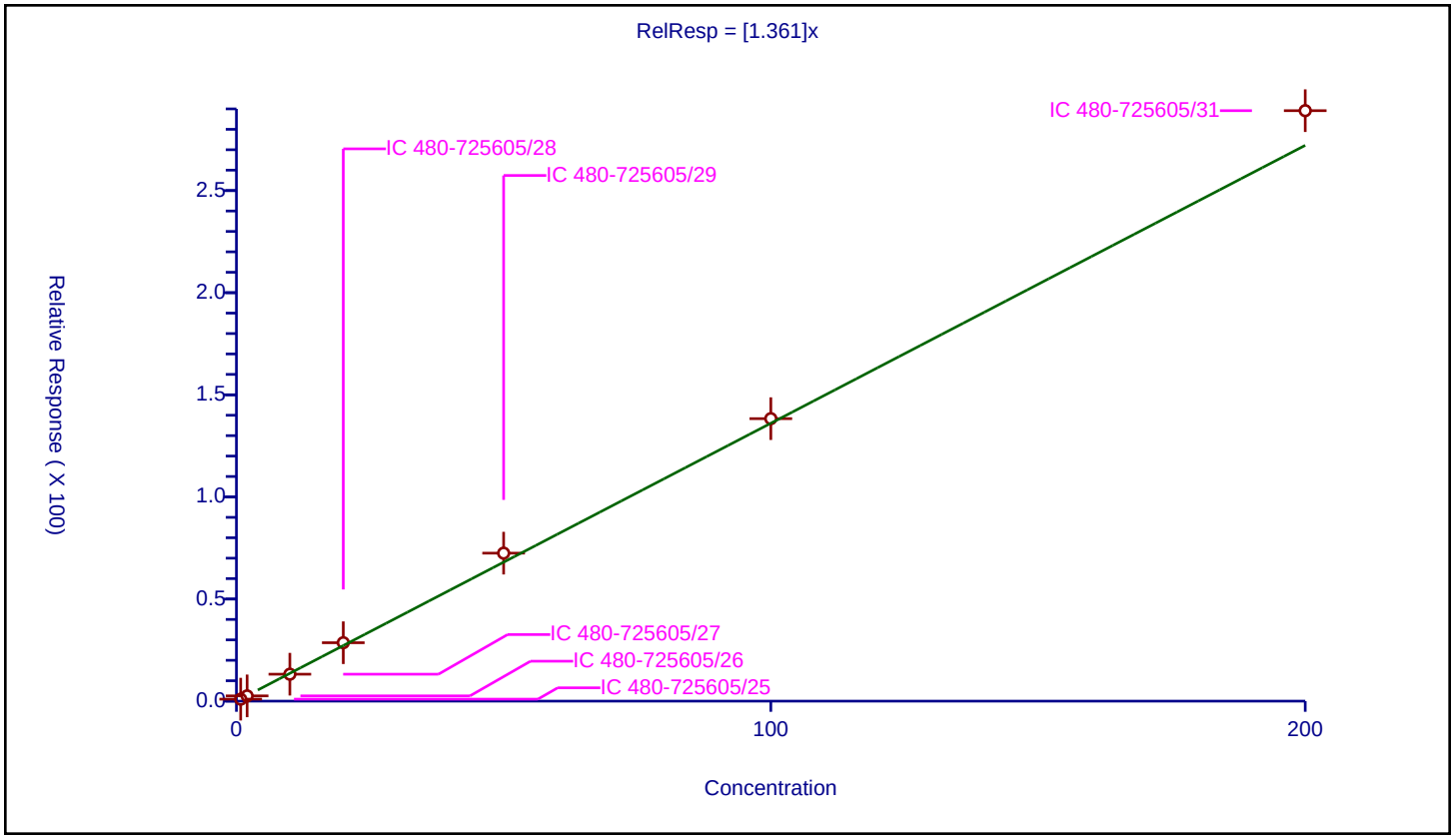
Curve Coefficients

Intercept:	0
Slope:	1.361

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.8	0.967528	25.0	189426.0	1.20941	Y
2	IC 480-725605/26	2.0	2.575433	25.0	184998.0	1.287717	Y
3	IC 480-725605/27	10.0	13.190186	25.0	183773.0	1.319019	Y
4	IC 480-725605/28	20.0	28.608564	25.0	183113.0	1.430428	Y
5	IC 480-725605/29	50.0	72.470743	25.0	173806.0	1.449415	Y
6	IC 480-725605/30	100.0	138.329392	25.0	168723.0	1.383294	Y
7	IC 480-725605/31	200.0	289.131498	25.0	168618.0	1.445657	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

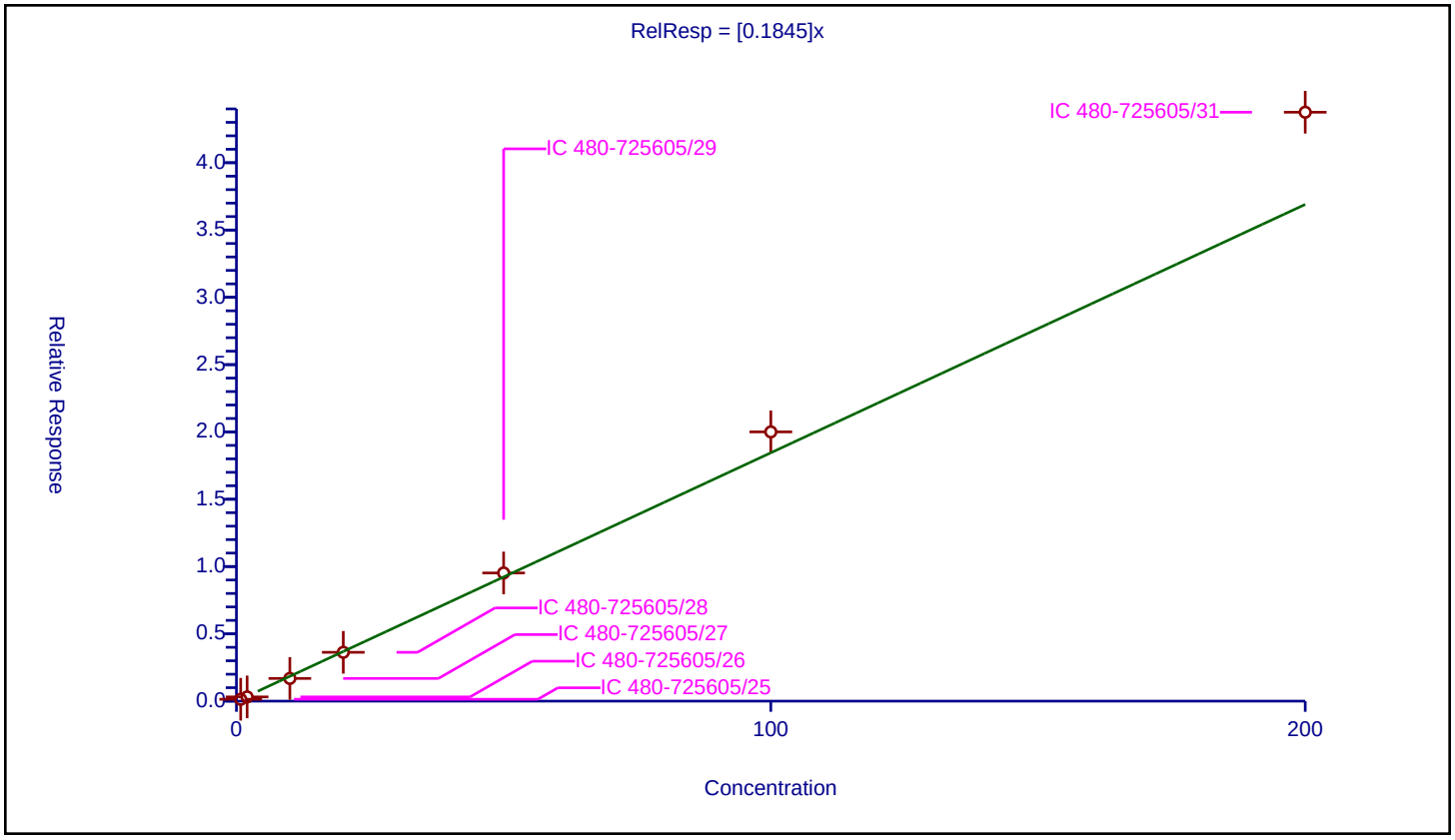
Curve Coefficients

Intercept:	0
Slope:	0.1845

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.8	0.140468	25.0	430168.0	0.175585	Y
2	IC 480-725605/26	2.0	0.31325	25.0	426815.0	0.156625	Y
3	IC 480-725605/27	10.0	1.686757	25.0	419696.0	0.168676	Y
4	IC 480-725605/28	20.0	3.627969	25.0	420180.0	0.181398	Y
5	IC 480-725605/29	50.0	9.522809	25.0	398782.0	0.190456	Y
6	IC 480-725605/30	100.0	20.004657	25.0	373633.0	0.200047	Y
7	IC 480-725605/31	200.0	43.753327	25.0	371934.0	0.218767	Y



Calibration / Epichlorohydrin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

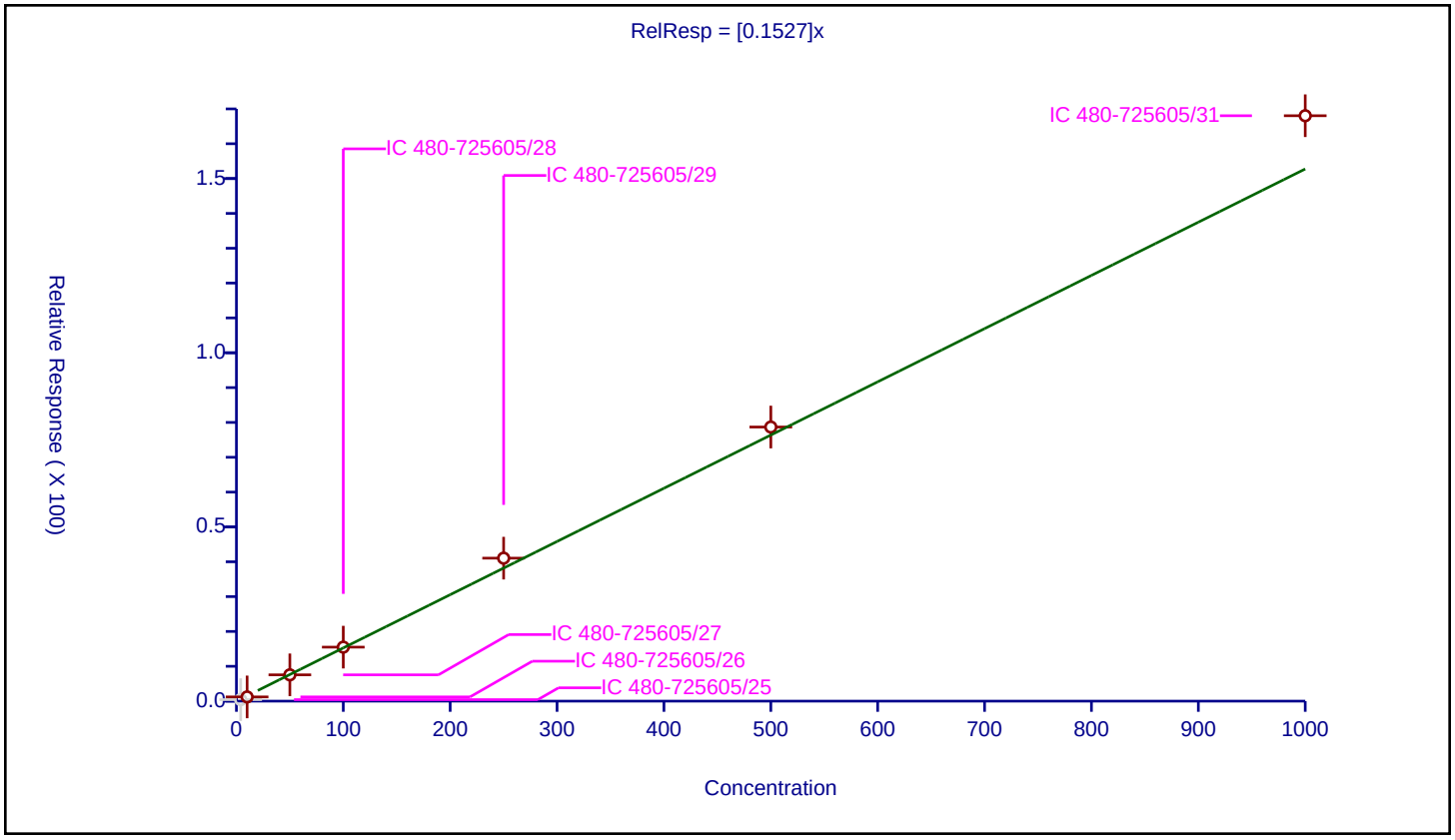
Curve Coefficients

Intercept:	0
Slope:	0.1527

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.430379	25.0	189426.0	0.107595	N
2	IC 480-725605/26	10.0	1.208662	25.0	184998.0	0.120866	Y
3	IC 480-725605/27	50.0	7.552932	25.0	183773.0	0.151059	Y
4	IC 480-725605/28	100.0	15.500265	25.0	183113.0	0.155003	Y
5	IC 480-725605/29	250.0	41.044901	25.0	173806.0	0.16418	Y
6	IC 480-725605/30	500.0	78.677329	25.0	168723.0	0.157355	Y
7	IC 480-725605/31	1000.0	168.035293	25.0	168618.0	0.168035	Y



Calibration / 2-Methylthiophene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

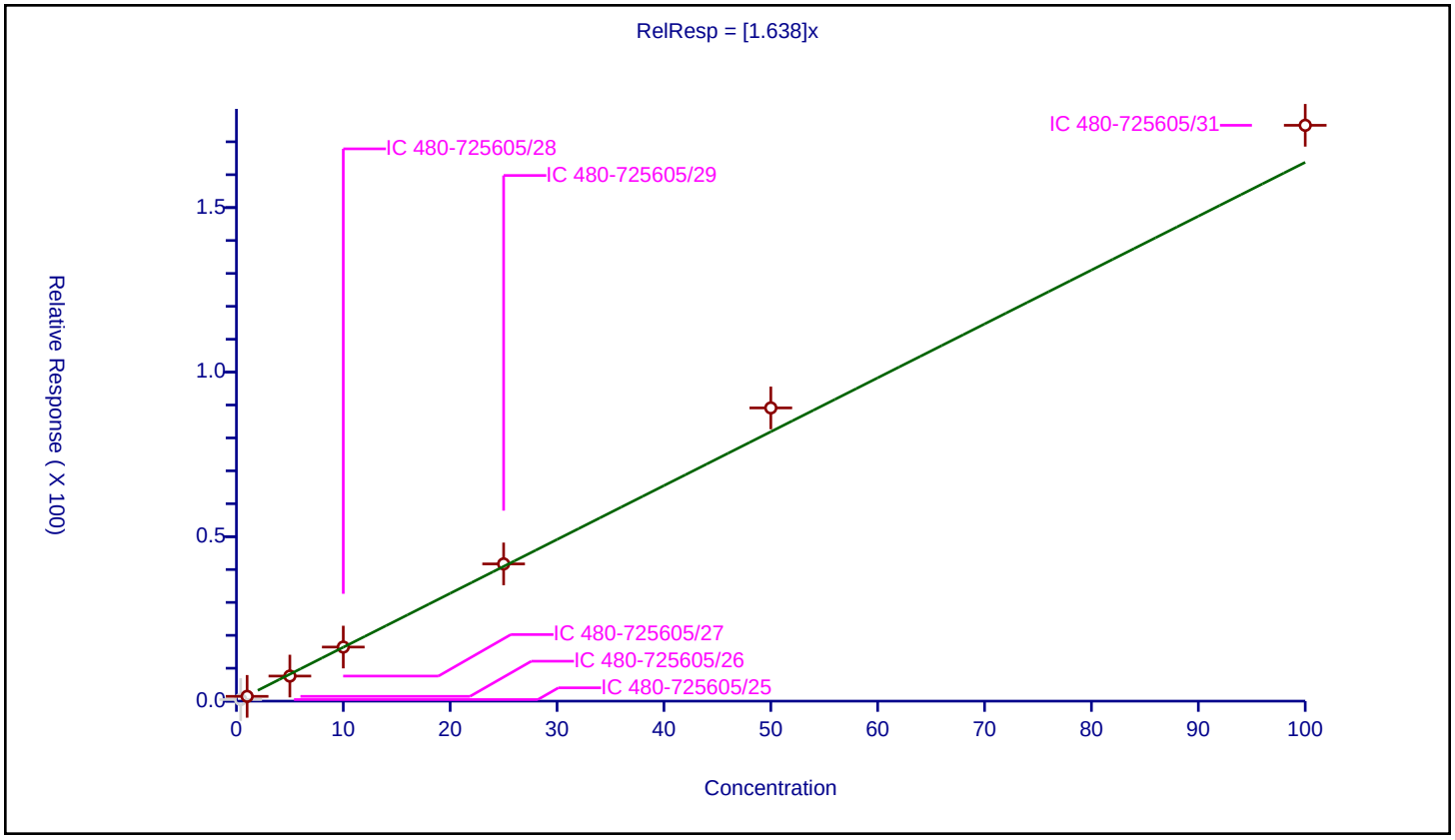
Curve Coefficients

Intercept:	0
Slope:	1.638

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.477895	25.0	430168.0	1.194737	N
2	IC 480-725605/26	1.0	1.456779	25.0	426815.0	1.456779	Y
3	IC 480-725605/27	5.0	7.622898	25.0	419696.0	1.52458	Y
4	IC 480-725605/28	10.0	16.436587	25.0	420180.0	1.643659	Y
5	IC 480-725605/29	25.0	41.707311	25.0	398782.0	1.668292	Y
6	IC 480-725605/30	50.0	89.121277	25.0	373633.0	1.782426	Y
7	IC 480-725605/31	100.0	175.011023	25.0	371934.0	1.75011	Y



Calibration / 3-Methylthiophene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

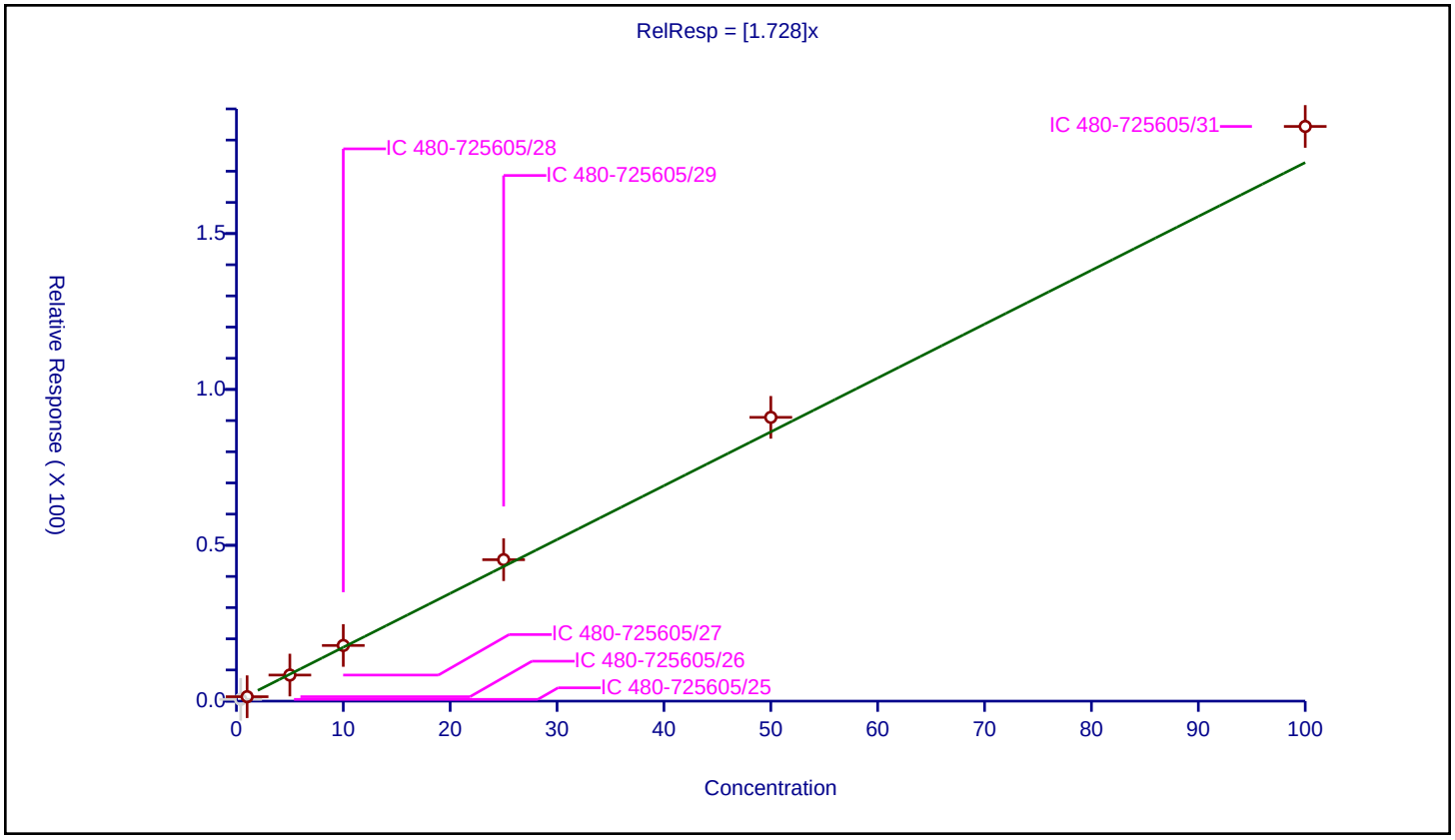
Curve Coefficients

Intercept:	0
Slope:	1.728

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.568906	25.0	430168.0	1.422264	N
2	IC 480-725605/26	1.0	1.426321	25.0	426815.0	1.426321	Y
3	IC 480-725605/27	5.0	8.370999	25.0	419696.0	1.6742	Y
4	IC 480-725605/28	10.0	17.866093	25.0	420180.0	1.786609	Y
5	IC 480-725605/29	25.0	45.379493	25.0	398782.0	1.81518	Y
6	IC 480-725605/30	50.0	91.046829	25.0	373633.0	1.820937	Y
7	IC 480-725605/31	100.0	184.372967	25.0	371934.0	1.84373	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

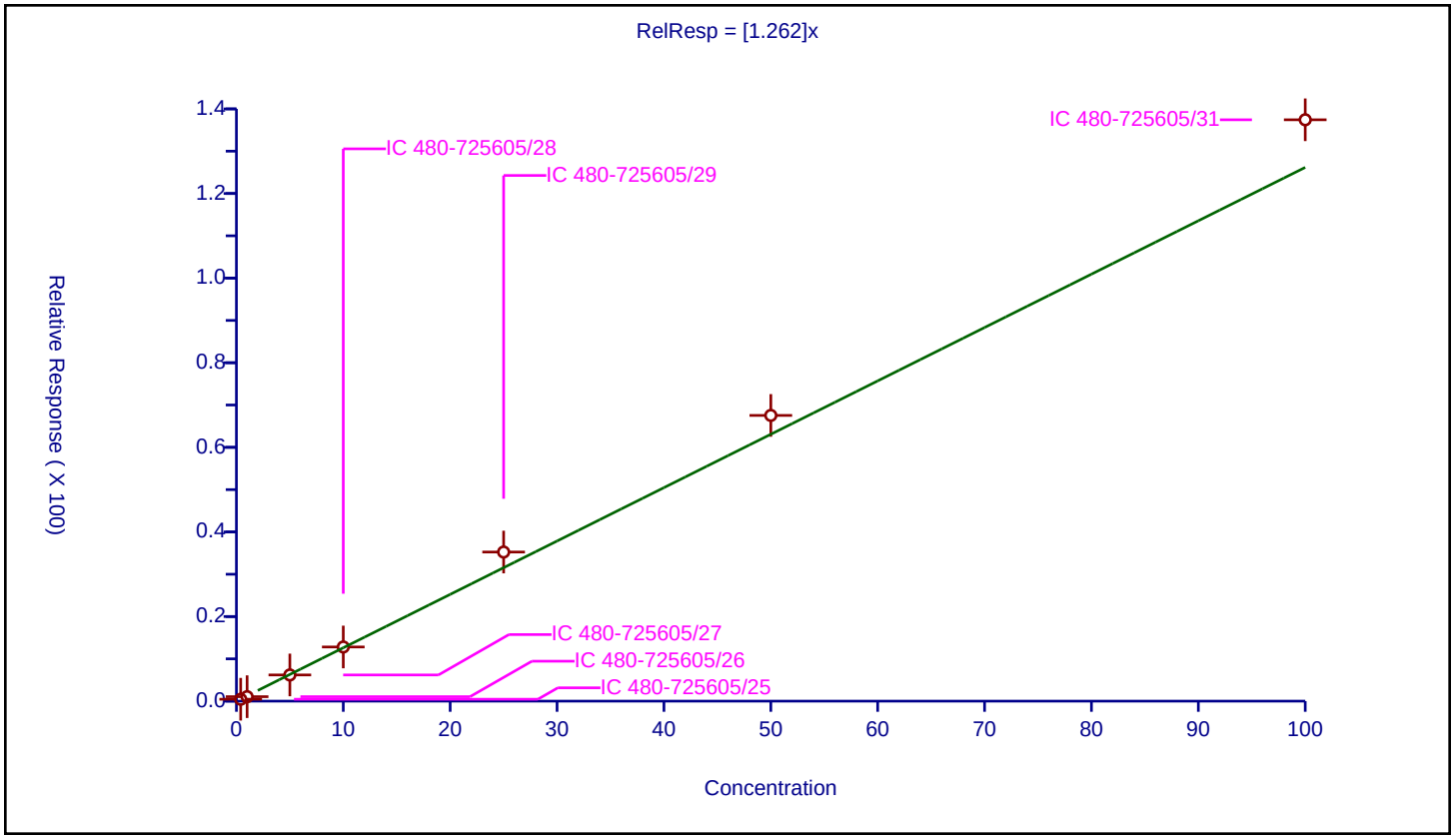
Curve Coefficients

Intercept:	0
Slope:	1.262

Error Coefficients

Relative Standard Deviation:	10.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.449688	25.0	366143.0	1.124219	Y
2	IC 480-725605/26	1.0	1.053837	25.0	364193.0	1.053837	Y
3	IC 480-725605/27	5.0	6.191307	25.0	360134.0	1.238261	Y
4	IC 480-725605/28	10.0	12.804178	25.0	369110.0	1.280418	Y
5	IC 480-725605/29	25.0	35.245746	25.0	343362.0	1.40983	Y
6	IC 480-725605/30	50.0	67.540193	25.0	340106.0	1.350804	Y
7	IC 480-725605/31	100.0	137.423514	25.0	338133.0	1.374235	Y



Calibration / 1-Chlorohexane

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

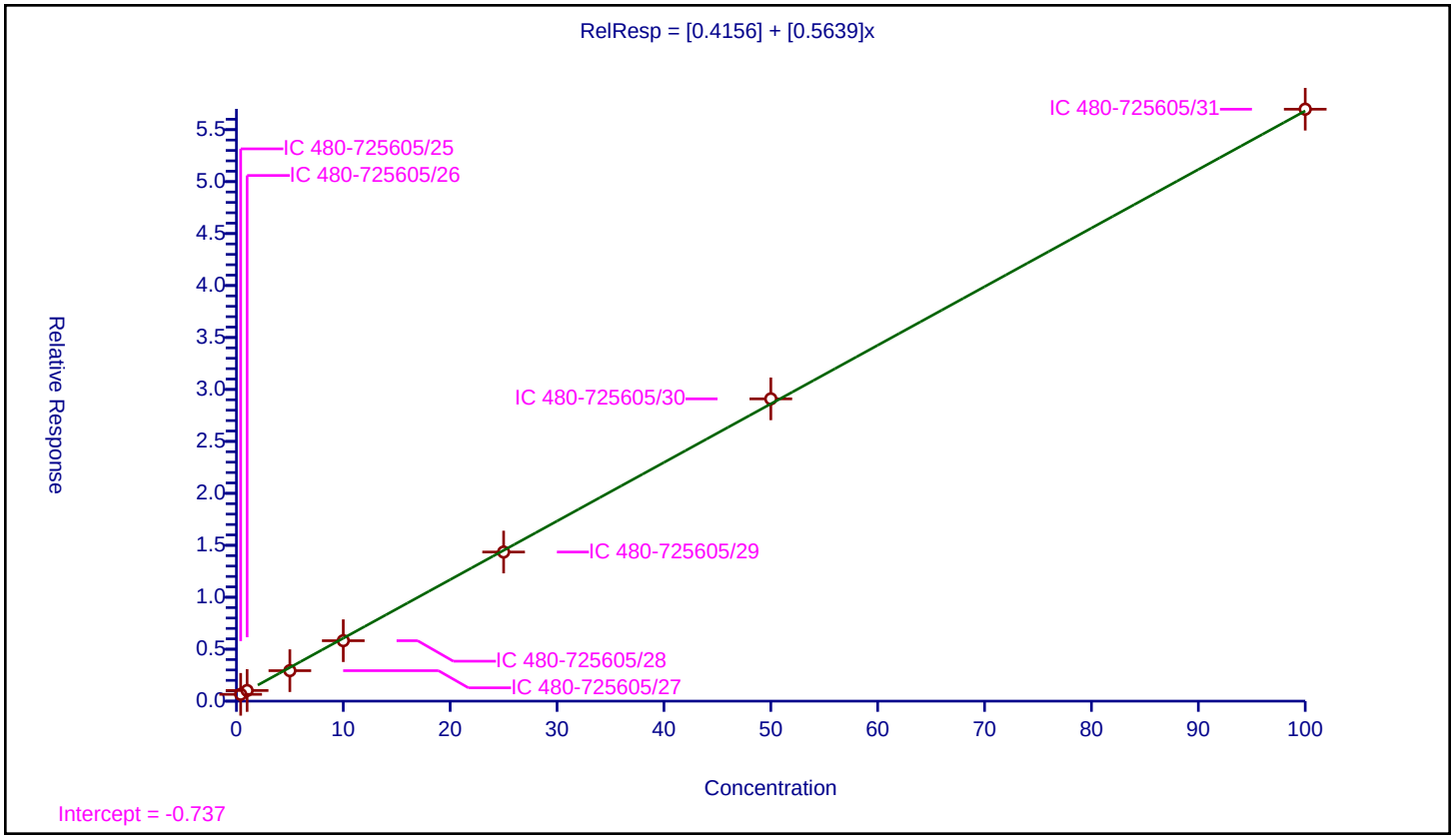
Curve Coefficients

Intercept:	0.4156
Slope:	0.5639

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.654867	25.0	366143.0	1.637168	Y
2	IC 480-725605/26	1.0	1.024594	25.0	364193.0	1.024594	Y
3	IC 480-725605/27	5.0	2.93363	25.0	360134.0	0.586726	Y
4	IC 480-725605/28	10.0	5.816423	25.0	369110.0	0.581642	Y
5	IC 480-725605/29	25.0	14.350744	25.0	343362.0	0.57403	Y
6	IC 480-725605/30	50.0	29.093283	25.0	340106.0	0.581866	Y
7	IC 480-725605/31	100.0	56.969964	25.0	338133.0	0.5697	Y



Calibration / 3-Chlorobenzotrifluoride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

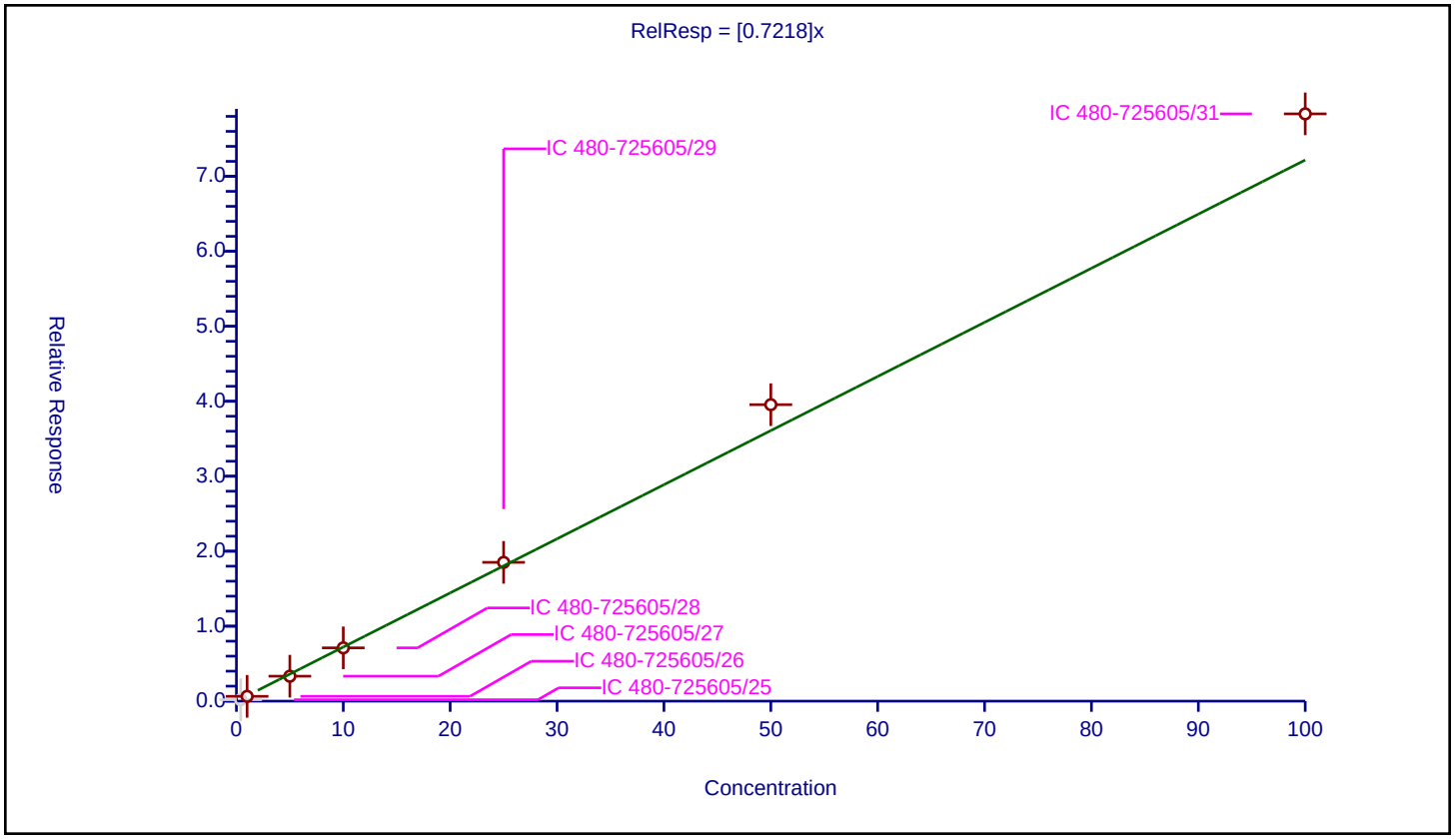
Curve Coefficients

Intercept:	0
Slope:	0.7218

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.188996	25.0	430168.0	0.47249	N
2	IC 480-725605/26	1.0	0.63968	25.0	426815.0	0.63968	Y
3	IC 480-725605/27	5.0	3.327706	25.0	419696.0	0.665541	Y
4	IC 480-725605/28	10.0	7.106895	25.0	420180.0	0.710689	Y
5	IC 480-725605/29	25.0	18.51237	25.0	398782.0	0.740495	Y
6	IC 480-725605/30	50.0	39.548568	25.0	373633.0	0.790971	Y
7	IC 480-725605/31	100.0	78.335404	25.0	371934.0	0.783354	Y



Calibration / 4-Chlorobenzotrifluoride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

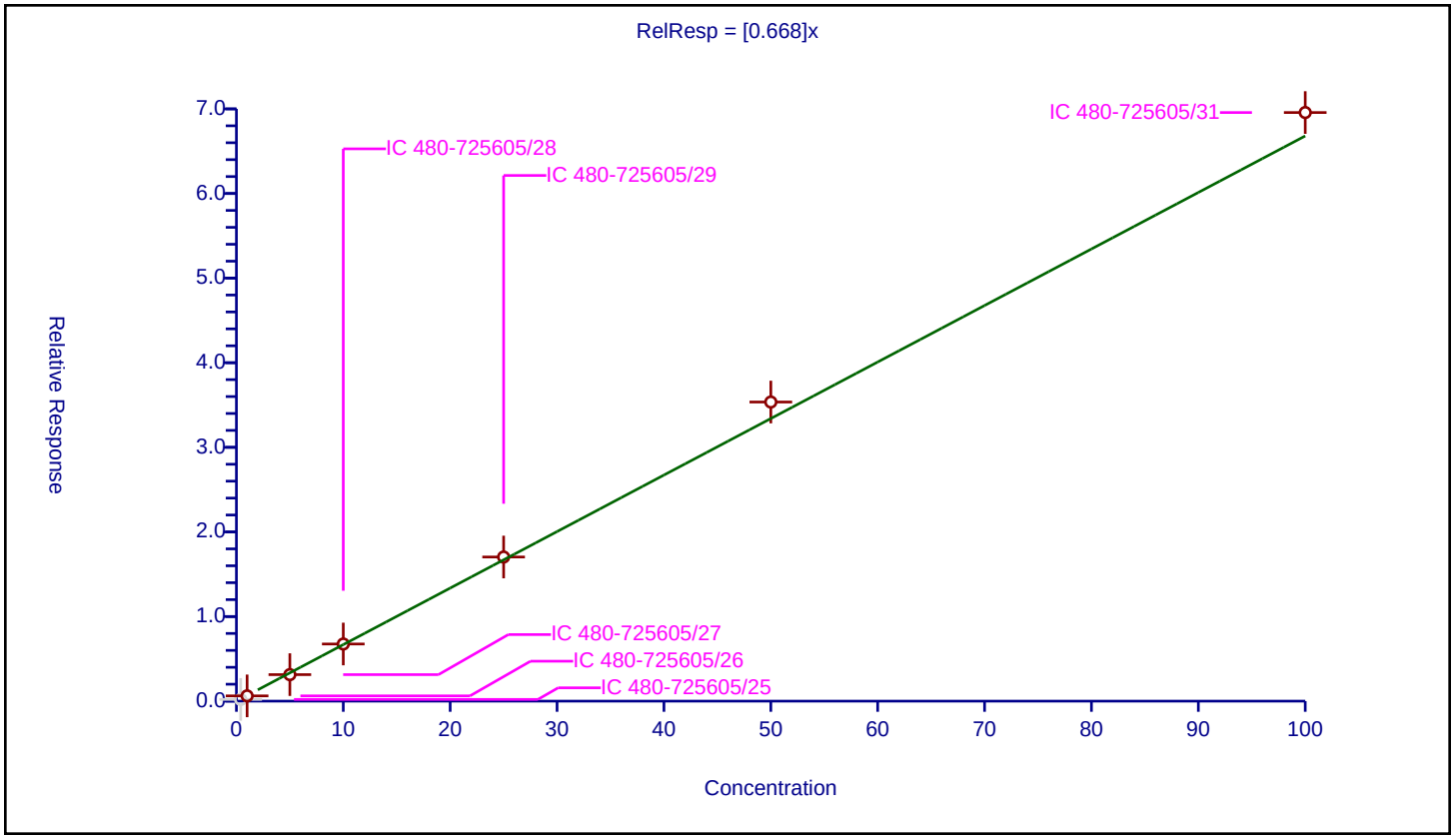
Curve Coefficients

Intercept:	0
Slope:	0.668

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.20213	25.0	430168.0	0.505326	N
2	IC 480-725605/26	1.0	0.621756	25.0	426815.0	0.621756	Y
3	IC 480-725605/27	5.0	3.133399	25.0	419696.0	0.62668	Y
4	IC 480-725605/28	10.0	6.754605	25.0	420180.0	0.675461	Y
5	IC 480-725605/29	25.0	17.035185	25.0	398782.0	0.681407	Y
6	IC 480-725605/30	50.0	35.352672	25.0	373633.0	0.707053	Y
7	IC 480-725605/31	100.0	69.567786	25.0	371934.0	0.695678	Y



Calibration / 2-Chlorobenzotrifluoride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

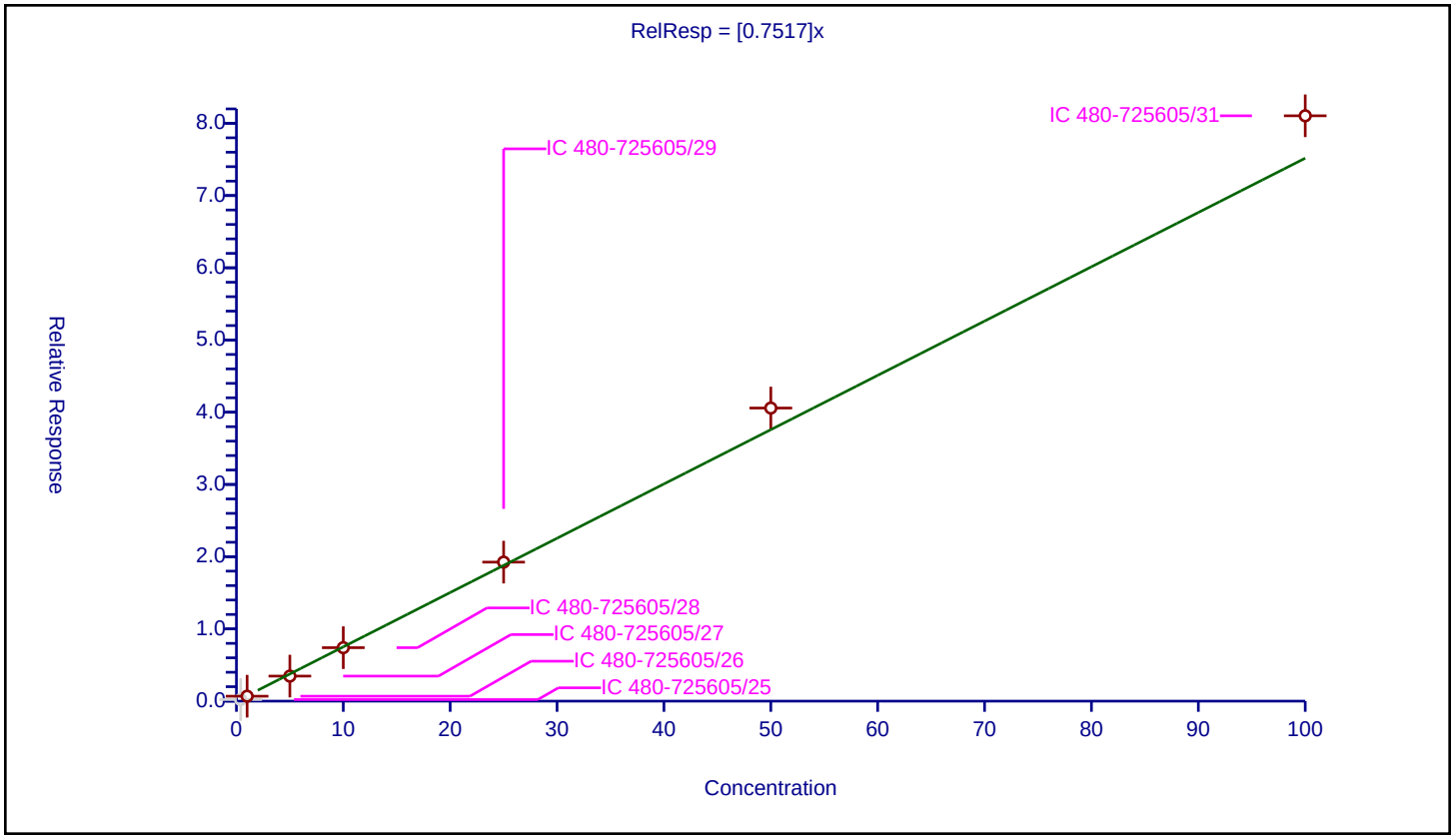
Curve Coefficients

Intercept:	0
Slope:	0.7517

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.22096	25.0	430168.0	0.5524	N
2	IC 480-725605/26	1.0	0.684723	25.0	426815.0	0.684723	Y
3	IC 480-725605/27	5.0	3.467391	25.0	419696.0	0.693478	Y
4	IC 480-725605/28	10.0	7.402661	25.0	420180.0	0.740266	Y
5	IC 480-725605/29	25.0	19.248487	25.0	398782.0	0.769939	Y
6	IC 480-725605/30	50.0	40.579258	25.0	373633.0	0.811585	Y
7	IC 480-725605/31	100.0	81.043881	25.0	371934.0	0.810439	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

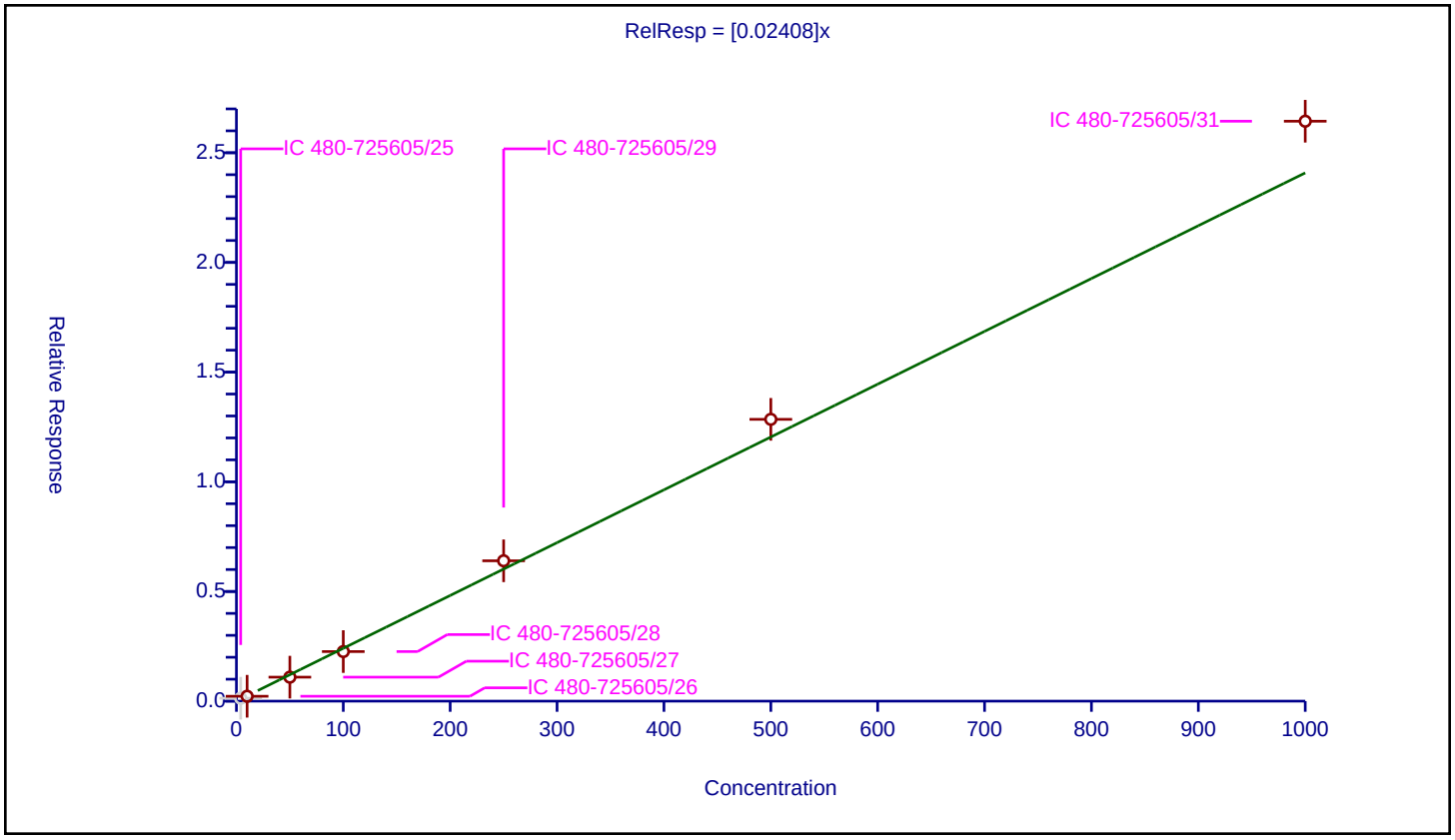
Curve Coefficients

Intercept:	0
Slope:	0.02408

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	4.0	0.13239	25.0	430168.0	0.033098	N
2	IC 480-725605/26	10.0	0.222989	25.0	426815.0	0.022299	Y
3	IC 480-725605/27	50.0	1.093649	25.0	419696.0	0.021873	Y
4	IC 480-725605/28	100.0	2.259746	25.0	420180.0	0.022597	Y
5	IC 480-725605/29	250.0	6.398358	25.0	398782.0	0.025593	Y
6	IC 480-725605/30	500.0	12.847232	25.0	373633.0	0.025694	Y
7	IC 480-725605/31	1000.0	26.43836	25.0	371934.0	0.026438	Y



Calibration / 3-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

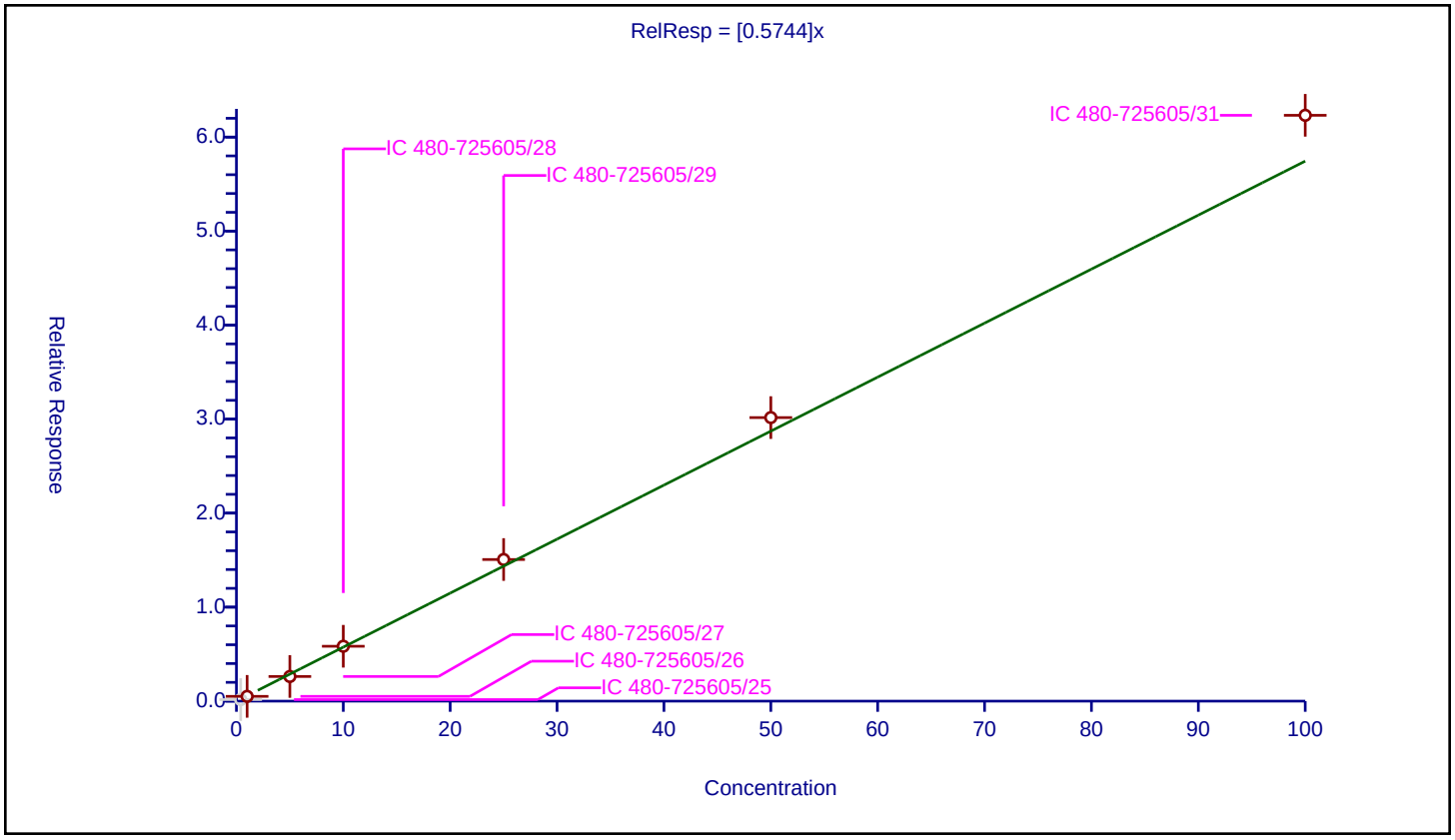
Curve Coefficients

Intercept:	0
Slope:	0.5744

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.166272	25.0	430168.0	0.415681	N
2	IC 480-725605/26	1.0	0.509061	25.0	426815.0	0.509061	Y
3	IC 480-725605/27	5.0	2.623268	25.0	419696.0	0.524654	Y
4	IC 480-725605/28	10.0	5.838272	25.0	420180.0	0.583827	Y
5	IC 480-725605/29	25.0	15.065311	25.0	398782.0	0.602612	Y
6	IC 480-725605/30	50.0	30.162619	25.0	373633.0	0.603252	Y
7	IC 480-725605/31	100.0	62.318382	25.0	371934.0	0.623184	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

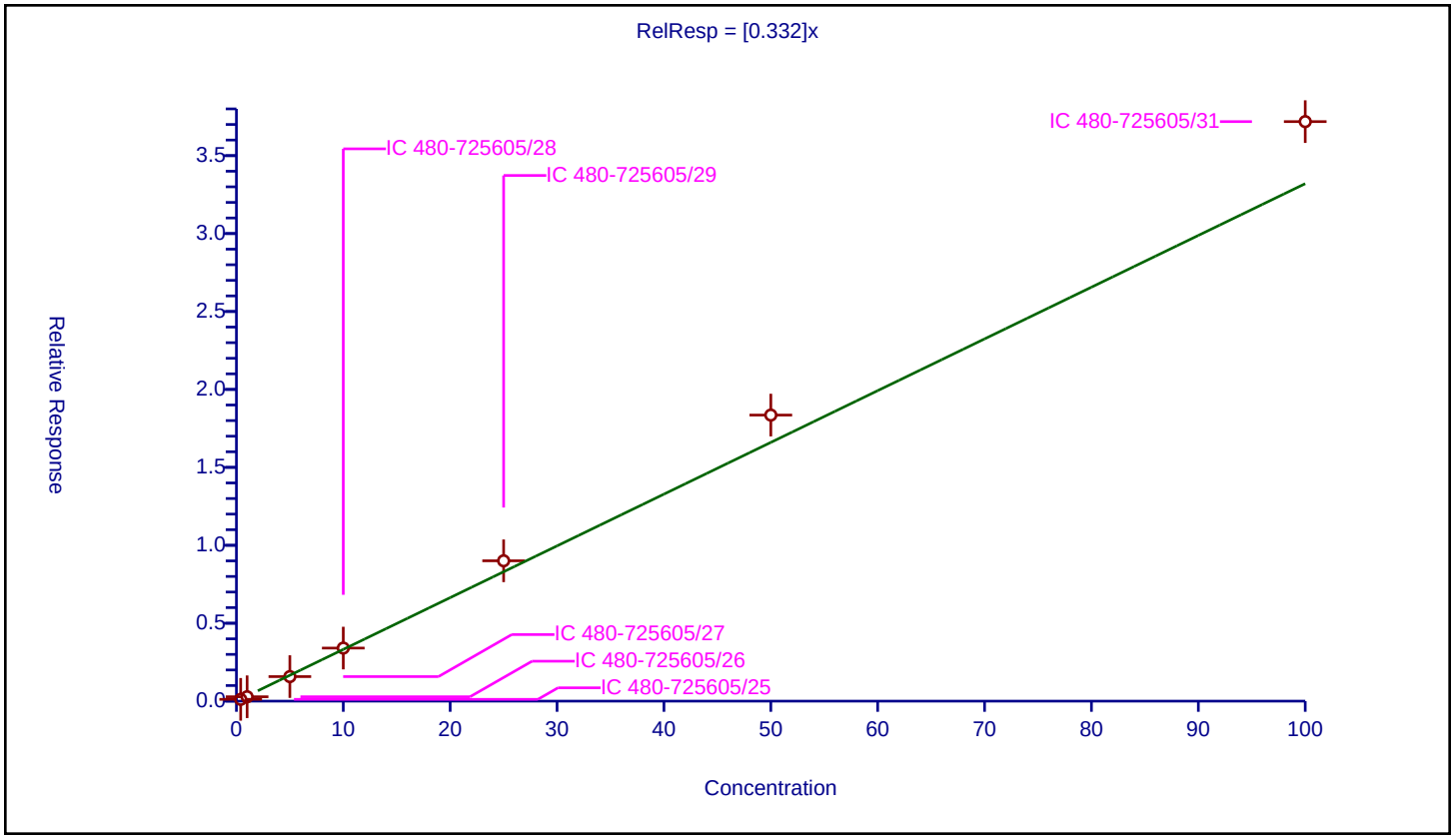
Curve Coefficients

Intercept:	0
Slope:	0.332

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.115652	25.0	430168.0	0.289131	Y
2	IC 480-725605/26	1.0	0.280508	25.0	426815.0	0.280508	Y
3	IC 480-725605/27	5.0	1.573996	25.0	419696.0	0.314799	Y
4	IC 480-725605/28	10.0	3.405683	25.0	420180.0	0.340568	Y
5	IC 480-725605/29	25.0	9.004607	25.0	398782.0	0.360184	Y
6	IC 480-725605/30	50.0	18.354843	25.0	373633.0	0.367097	Y
7	IC 480-725605/31	100.0	37.182941	25.0	371934.0	0.371829	Y



Calibration / Dicyclopentadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

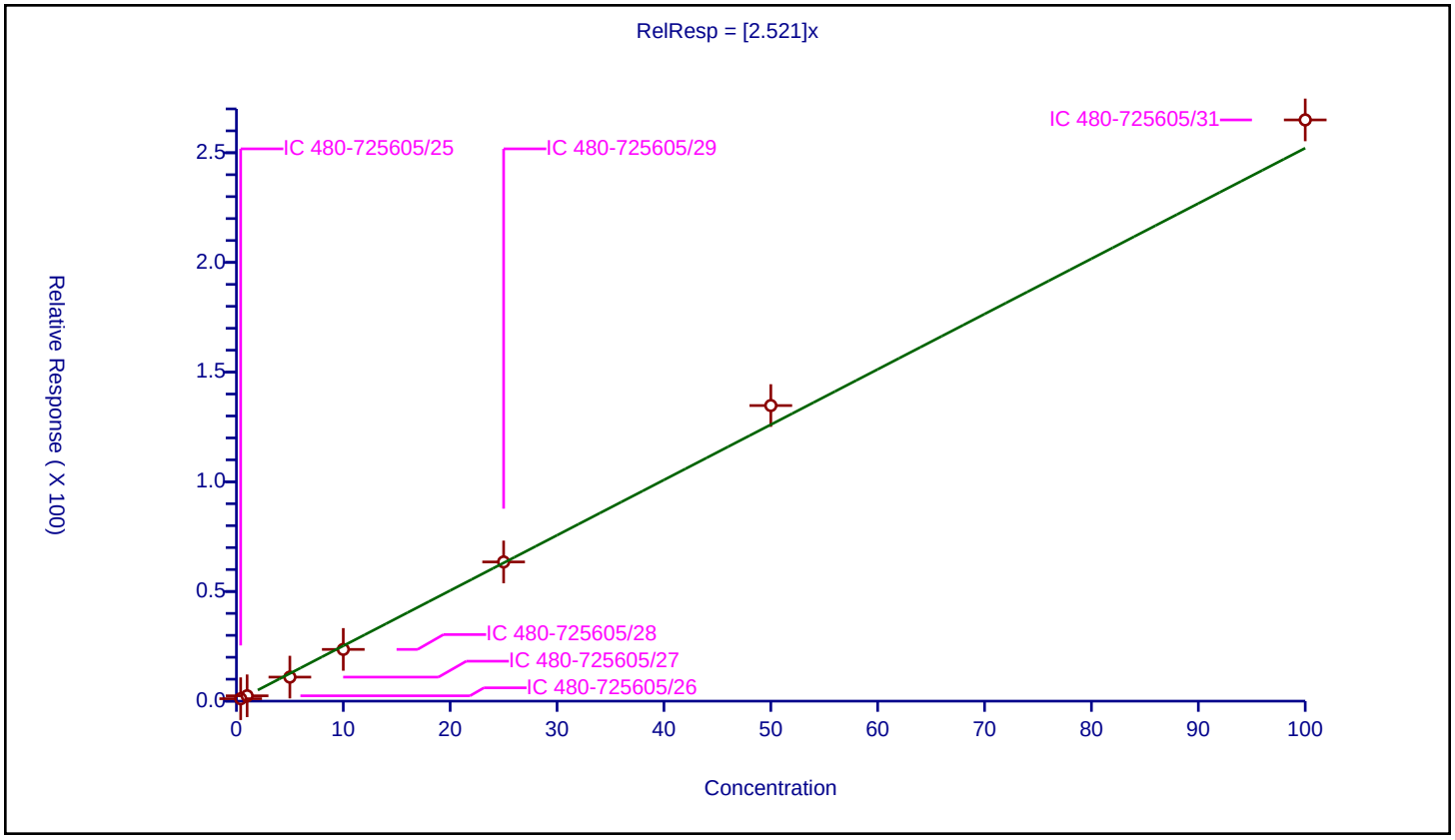
Curve Coefficients

Intercept:	0
Slope:	2.521

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	1.110671	25.0	430168.0	2.776677	Y
2	IC 480-725605/26	1.0	2.437883	25.0	426815.0	2.437883	Y
3	IC 480-725605/27	5.0	10.953702	25.0	419696.0	2.19074	Y
4	IC 480-725605/28	10.0	23.588998	25.0	420180.0	2.3589	Y
5	IC 480-725605/29	25.0	63.465816	25.0	398782.0	2.538633	Y
6	IC 480-725605/30	50.0	134.755897	25.0	373633.0	2.695118	Y
7	IC 480-725605/31	100.0	264.974431	25.0	371934.0	2.649744	Y



Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

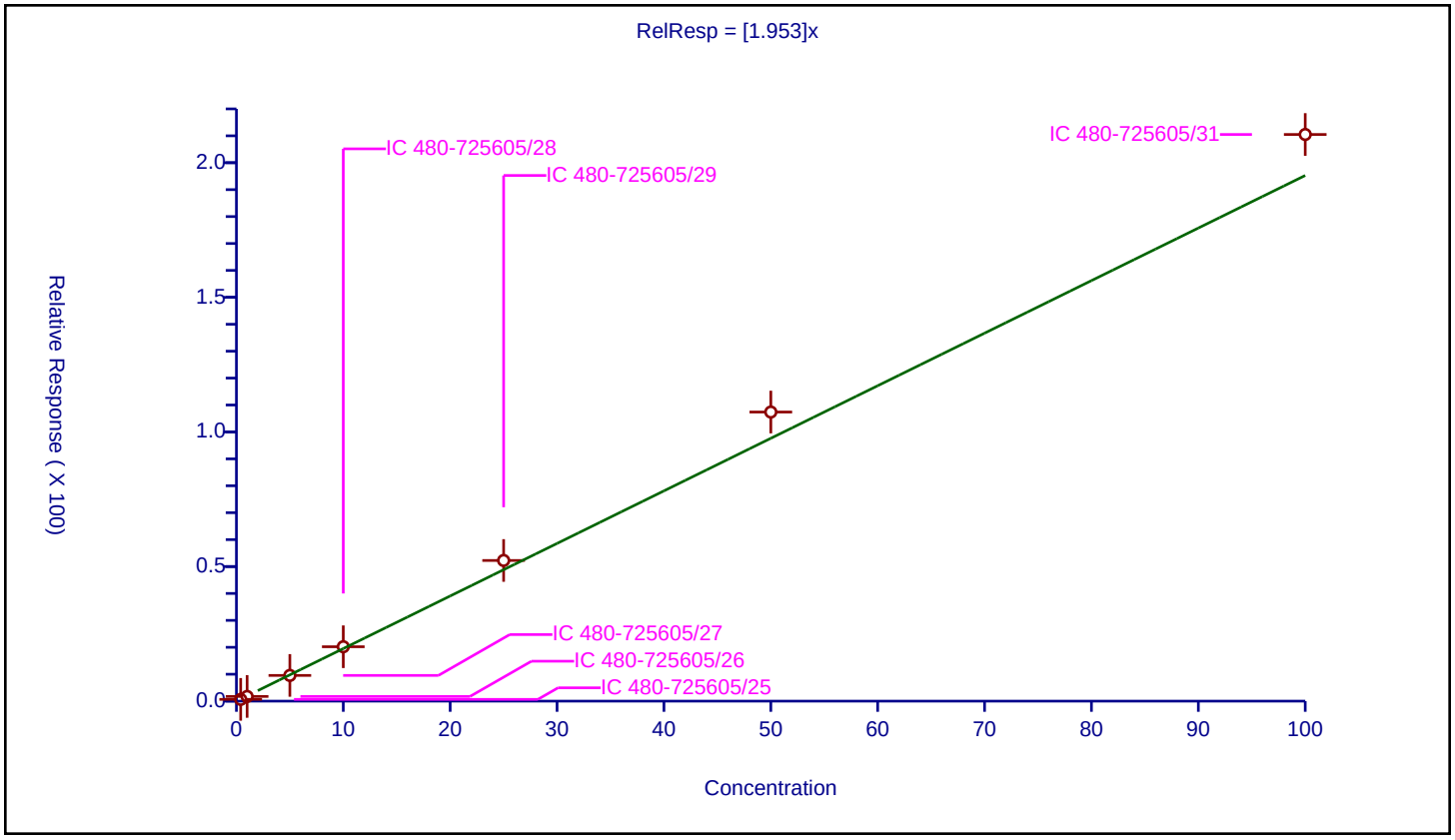
Curve Coefficients

Intercept:	0
Slope:	1.953

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.657359	25.0	430168.0	1.643399	Y
2	IC 480-725605/26	1.0	1.750524	25.0	426815.0	1.750524	Y
3	IC 480-725605/27	5.0	9.553641	25.0	419696.0	1.910728	Y
4	IC 480-725605/28	10.0	20.210684	25.0	420180.0	2.021068	Y
5	IC 480-725605/29	25.0	52.249099	25.0	398782.0	2.089964	Y
6	IC 480-725605/30	50.0	107.392147	25.0	373633.0	2.147843	Y
7	IC 480-725605/31	100.0	210.496217	25.0	371934.0	2.104962	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

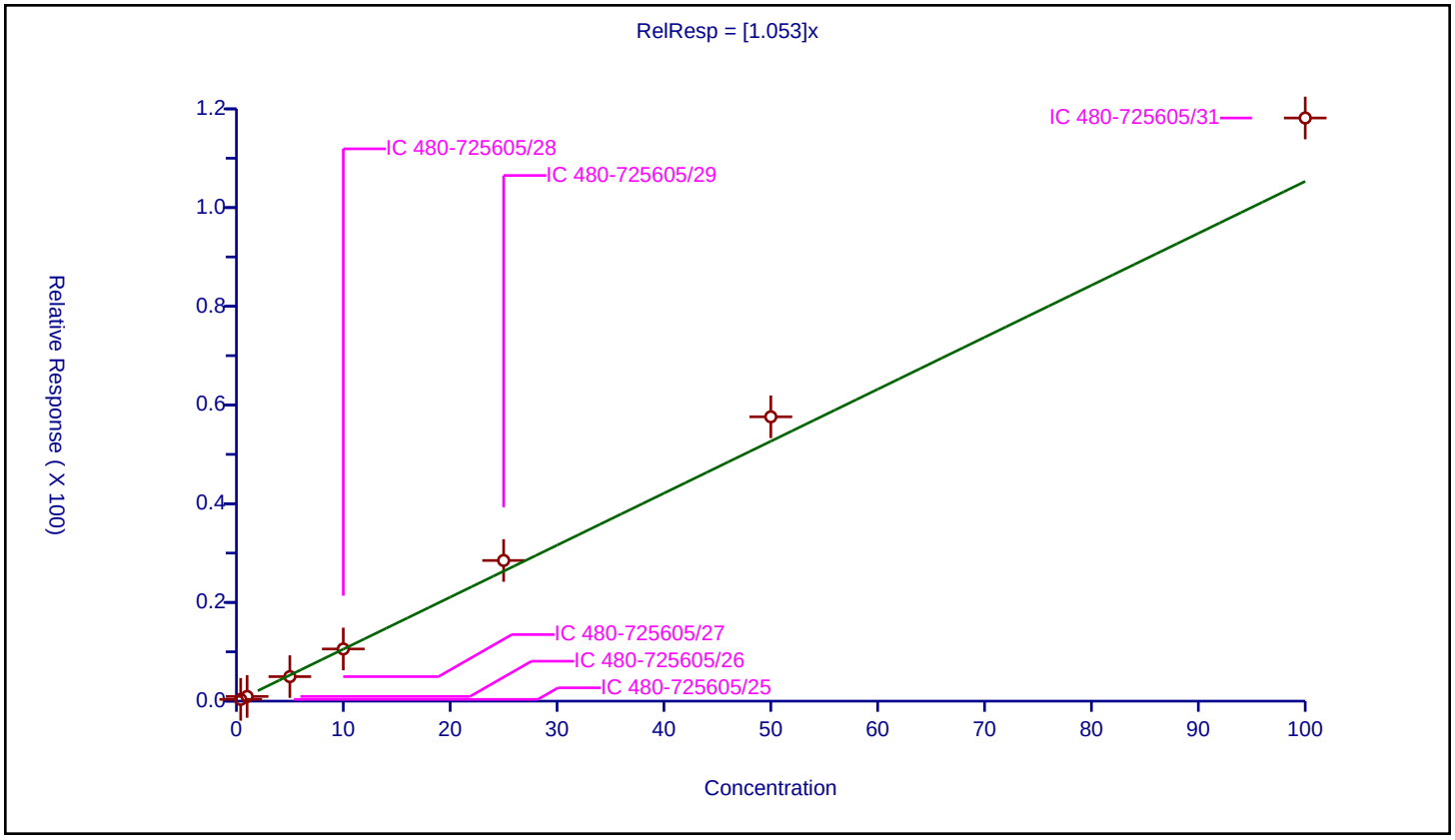
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.358348	25.0	430168.0	0.895871	Y
2	IC 480-725605/26	1.0	0.9517	25.0	426815.0	0.9517	Y
3	IC 480-725605/27	5.0	4.968715	25.0	419696.0	0.993743	Y
4	IC 480-725605/28	10.0	10.569339	25.0	420180.0	1.056934	Y
5	IC 480-725605/29	25.0	28.502854	25.0	398782.0	1.140114	Y
6	IC 480-725605/30	50.0	57.611078	25.0	373633.0	1.152222	Y
7	IC 480-725605/31	100.0	118.154767	25.0	371934.0	1.181548	Y



Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

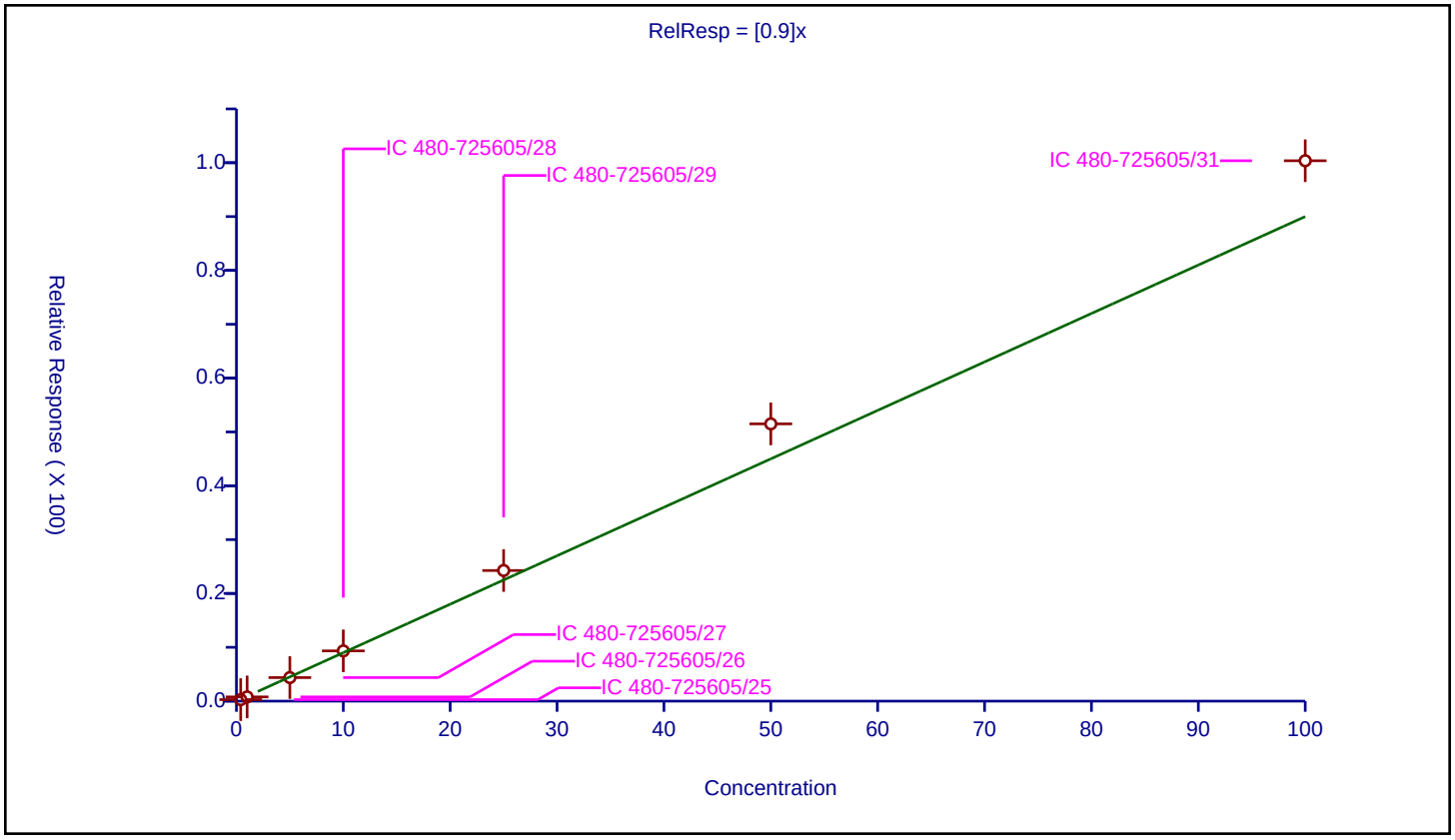
Curve Coefficients

Intercept:	0
Slope:	0.9

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.281053	25.0	430168.0	0.702632	Y
2	IC 480-725605/26	1.0	0.785528	25.0	426815.0	0.785528	Y
3	IC 480-725605/27	5.0	4.375071	25.0	419696.0	0.875014	Y
4	IC 480-725605/28	10.0	9.329752	25.0	420180.0	0.932975	Y
5	IC 480-725605/29	25.0	24.259244	25.0	398782.0	0.97037	Y
6	IC 480-725605/30	50.0	51.496723	25.0	373633.0	1.029934	Y
7	IC 480-725605/31	100.0	100.369219	25.0	371934.0	1.003692	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

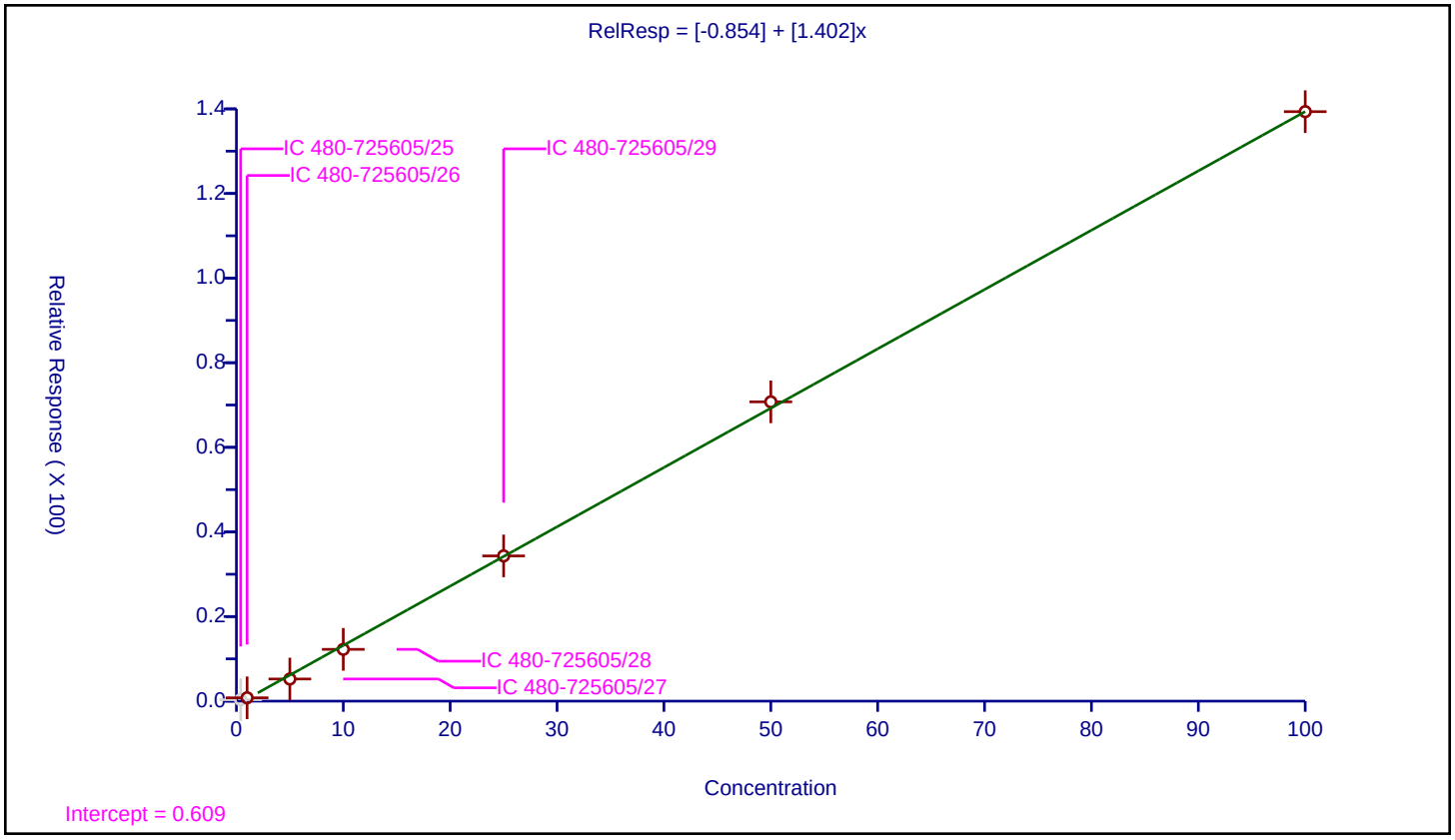
Curve Coefficients

Intercept:	-0.854
Slope:	1.402

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-725605/25	0.4	0.336613	25.0	430168.0	0.841532	N
2	IC 480-725605/26	1.0	0.790272	25.0	426815.0	0.790272	Y
3	IC 480-725605/27	5.0	5.23492	25.0	419696.0	1.046984	Y
4	IC 480-725605/28	10.0	12.242551	25.0	420180.0	1.224255	Y
5	IC 480-725605/29	25.0	34.327402	25.0	398782.0	1.373096	Y
6	IC 480-725605/30	50.0	70.749506	25.0	373633.0	1.41499	Y
7	IC 480-725605/31	100.0	139.346967	25.0	371934.0	1.39347	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICV 480-725605/34 Calibration Date: 09/19/2024 23:11

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D6855.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	2.011	2.090	0.1000	26.0	25.0	3.9	50.0
Chloromethane	Ave	2.234	2.259	0.1000	25.3	25.0	1.1	30.0
Vinyl chloride	Ave	1.376	1.435	0.1000	26.1	25.0	4.3	30.0
Butadiene	Ave	1.366	1.463		26.8	25.0	7.1	30.0
Bromomethane	Ave	1.041	1.071	0.1000	25.7	25.0	2.9	50.0
Chloroethane	Ave	0.6918	0.7128	0.1000	25.8	25.0	3.0	50.0
Dichlorofluoromethane	Ave	2.243	2.275		25.3	25.0	1.4	30.0
Trichlorofluoromethane	Ave	1.802	1.820	0.1000	25.2	25.0	1.0	30.0
Ethyl ether	Ave	0.8865	0.8933		25.2	25.0	0.8	30.0
Acrolein	Ave	0.1426	0.1446		127	125	1.4	50.0
1,1-Dichloroethene	Ave	1.030	1.073	0.1000	26.0	25.0	4.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.168	0.1000	25.4	25.0	1.5	30.0
Acetone	Ave	0.5291	0.5192	0.1000	123	125	-1.9	50.0
Iodomethane	Ave	2.496	2.556		25.6	25.0	2.4	30.0
Carbon disulfide	Ave	3.756	3.915	0.1000	26.1	25.0	4.3	30.0
Allyl chloride	Ave	2.273	2.378		26.2	25.0	4.6	30.0
Methyl acetate	Ave	1.341	1.377	0.1000	51.3	50.0	2.6	50.0
Methylene Chloride	Lin1		1.325	0.1000	26.0	25.0	4.0	30.0
2-Methyl-2-propanol	Ave	0.1639	0.1751		267	250	6.8	50.0
Methyl tert-butyl ether	Ave	3.269	3.350	0.1000	25.6	25.0	2.5	30.0
trans-1,2-Dichloroethene	Ave	1.176	1.219	0.1000	25.9	25.0	3.7	30.0
Acrylonitrile	Ave	0.5971	0.6150		258	250	3.0	30.0
Hexane	Ave	1.775	1.708		24.0	25.0	-3.8	30.0
1,1-Dichloroethane	Ave	2.387	2.449	0.2000	25.7	25.0	2.6	30.0
Vinyl acetate	Ave	3.106	3.304		53.2	50.0	6.4	30.0
2,2-Dichloropropane	Ave	1.287	1.253		24.3	25.0	-2.7	30.0
cis-1,2-Dichloroethene	Ave	1.323	1.371	0.1000	25.9	25.0	3.7	30.0
2-Butanone (MEK)	Ave	0.8070	0.8543	0.1000	132	125	5.9	30.0
Chlorobromomethane	Ave	0.7697	0.7862		25.5	25.0	2.1	30.0
Tetrahydrofuran	Ave	0.5811	0.5643		48.6	50.0	-2.9	30.0
Chloroform	Ave	2.392	2.300	0.2000	24.0	25.0	-3.8	30.0
1,1,1-Trichloroethane	Ave	1.835	1.855	0.1000	25.3	25.0	1.1	30.0
Cyclohexane	Ave	2.155	2.202	0.1000	25.5	25.0	2.2	30.0
Carbon tetrachloride	Ave	1.732	1.724	0.1000	24.9	25.0	-0.5	30.0
1,1-Dichloropropene	Ave	1.583	1.605		25.4	25.0	1.4	30.0
Benzene	Ave	4.461	4.485	0.5000	25.1	25.0	0.5	30.0
Isobutyl alcohol	Ave	0.0794	0.0821		646	625	3.4	50.0
1,2-Dichloroethane	Ave	1.931	1.889	0.1000	24.5	25.0	-2.2	30.0
n-Heptane	Ave	2.186	1.908		21.8	25.0	-12.7	30.0
Trichloroethene	Ave	1.277	1.288	0.2000	25.2	25.0	0.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICV 480-725605/34 Calibration Date: 09/19/2024 23:11

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D6855.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	1.718	1.741	0.1000	25.3	25.0	1.3	30.0
1,2-Dichloropropane	Ave	1.289	1.306	0.1000	25.3	25.0	1.3	30.0
1,4-Dioxane	Lin1		0.0056		488	500	-2.4	50.0
Dibromomethane	Ave	0.9222	0.9541	0.1000	25.9	25.0	3.5	30.0
Bromodichloromethane	Ave	1.622	1.654	0.2000	25.5	25.0	2.0	30.0
2-Chloroethyl vinyl ether	Ave	0.8145	0.8982		27.6	25.0	10.3	30.0
cis-1,3-Dichloropropene	Ave	1.814	1.900	0.2000	26.2	25.0	4.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8747	0.9265	0.1000	132	125	5.9	30.0
Toluene	Ave	1.377	1.358	0.4000	24.7	25.0	-1.4	30.0
trans-1,3-Dichloropropene	Ave	0.8100	0.8644	0.1000	26.7	25.0	6.7	30.0
Ethyl methacrylate	Ave	0.7209	0.7873		27.3	25.0	9.2	30.0
1,1,2-Trichloroethane	Ave	0.4809	0.4930	0.1000	25.6	25.0	2.5	30.0
Tetrachloroethene	Ave	0.6654	0.6768	0.2000	25.4	25.0	1.7	30.0
1,3-Dichloropropane	Ave	0.8565	0.8764		25.6	25.0	2.3	30.0
2-Hexanone	Ave	0.6197	0.6603	0.1000	133	125	6.5	30.0
Dibromochloromethane	Ave	0.7172	0.7547	0.1000	26.3	25.0	5.2	30.0
1,2-Dibromoethane	Ave	0.6340	0.6718		26.5	25.0	6.0	30.0
Chlorobenzene	Ave	1.620	1.598	0.5000	24.7	25.0	-1.3	30.0
Ethylbenzene	Ave	2.486	2.524	0.1000	25.4	25.0	1.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6309	0.6507		25.8	25.0	3.1	30.0
m,p-Xylene	Ave	0.9647	0.9926	0.1000	25.7	25.0	2.9	30.0
o-Xylene	Ave	0.9449	1.000	0.3000	26.4	25.0	5.8	30.0
Styrene	Ave	1.571	1.648	0.3000	26.2	25.0	4.9	30.0
Bromoform	Ave	0.4928	0.5157	0.1000	26.2	25.0	4.6	50.0
Isopropylbenzene	Ave	2.011	2.171	0.1000	27.0	25.0	8.0	30.0
Bromobenzene	Ave	0.6782	0.6960		25.7	25.0	2.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7790	0.8007	0.3000	25.7	25.0	2.8	30.0
1,2,3-Trichloropropane	Ave	0.1975	0.2051		26.0	25.0	3.9	30.0
N-Propylbenzene	Ave	2.639	2.777		26.3	25.0	5.2	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.2216		23.7	25.0	-5.2	50.0
2-Chlorotoluene	Ave	0.5838	0.6103		26.1	25.0	4.5	30.0
1,3,5-Trimethylbenzene	Ave	1.884	1.999		26.5	25.0	6.1	30.0
4-Chlorotoluene	Ave	0.6042	0.6138		25.4	25.0	1.6	30.0
tert-Butylbenzene	Ave	0.3607	0.3903		27.0	25.0	8.2	30.0
1,2,4-Trimethylbenzene	Ave	1.955	2.054		26.3	25.0	5.1	30.0
sec-Butylbenzene	Ave	2.454	2.600		26.5	25.0	5.9	30.0
4-Isopropyltoluene	Ave	2.110	2.277		27.0	25.0	7.9	30.0
1,3-Dichlorobenzene	Ave	1.286	1.284	0.6000	25.0	25.0	-0.1	30.0
1,4-Dichlorobenzene	Ave	1.346	1.316	0.5000	24.4	25.0	-2.2	30.0
n-Butylbenzene	Ave	1.919	2.083		27.1	25.0	8.6	30.0
1,2-Dichlorobenzene	Ave	1.278	1.296	0.4000	25.4	25.0	1.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICV 480-725605/34 Calibration Date: 09/19/2024 23:11

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D6855.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	0.1385	0.1495	0.0500	27.0	25.0	8.0	50.0
1,2,4-Trichlorobenzene	Ave	0.9100	0.9720	0.2000	26.7	25.0	6.8	30.0
Hexachlorobutadiene	Ave	0.4706	0.4767		25.3	25.0	1.3	30.0
Naphthalene	Ave	2.165	2.379		27.5	25.0	9.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8978	0.9171		25.5	25.0	2.1	30.0
Dibromofluoromethane (Surr)	Ave	1.607	1.593		24.8	25.0	-0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9116	0.8977		24.6	25.0	-1.5	30.0
Toluene-d8 (Surr)	Ave	2.413	2.428		25.2	25.0	0.6	30.0

Report Date: 20-Sep-2024 12:00:45 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6855.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Sep-2024 23:11:30 ALS Bottle#: 43 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0120124-034
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 12:00:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:46:40

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	4.748	4.748	0.000	98	179361	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.101	7.102	-0.001	87	345229	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	95	378150	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	94	285798	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	99	161009	25.0	24.6	
$ 5 Toluene-d8 (Surr)	98	5.949	5.955	-0.006	94	838156	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	-0.001	95	285381	25.0	24.7	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	374775	25.0	26.0	
12 Chloromethane	50	1.279	1.280	-0.001	99	405248	25.0	25.3	
13 Vinyl chloride	62	1.359	1.359	0.000	98	257456	25.0	26.1	
144 Butadiene	54	1.371	1.377	-0.006	98	262465	25.0	26.8	
14 Bromomethane	94	1.639	1.645	-0.006	92	192160	25.0	25.7	
15 Chloroethane	64	1.694	1.700	-0.006	96	127845	25.0	25.8	
16 Dichlorofluoromethane	67	1.901	1.907	-0.006	98	407987	25.0	25.3	
17 Trichlorofluoromethane	101	1.913	1.914	-0.001	98	326402	25.0	25.2	
18 Ethyl ether	59	2.151	2.151	0.000	96	160218	25.0	25.2	
20 Acrolein	56	2.310	2.316	-0.006	99	129694	125.0	126.8	
22 1,1-Dichloroethene	96	2.352	2.359	-0.007	95	192417	25.0	26.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.359	2.359	-0.001	95	209550	25.0	25.4	
23 Acetone	43	2.456	2.462	-0.006	98	465659	125.0	122.7	
25 Iodomethane	142	2.499	2.517	-0.018	99	458366	25.0	25.6	
26 Carbon disulfide	76	2.529	2.548	-0.019	100	702239	25.0	26.1	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	90	426572	25.0	26.2	
27 Methyl acetate	43	2.730	2.737	-0.007	100	493788	50.0	51.3	
30 Methylene Chloride	84	2.822	2.822	0.000	96	237641	25.0	26.0	
31 2-Methyl-2-propanol	59	2.974	2.980	-0.006	98	313993	250.0	267.1	
32 Methyl tert-butyl ether	73	3.011	3.017	-0.006	99	600940	25.0	25.6	
34 trans-1,2-Dichloroethene	96	3.029	3.029	0.000	95	218712	25.0	25.9	
33 Acrylonitrile	53	3.066	3.072	-0.006	96	1103122	250.0	257.5	
35 Hexane	57	3.206	3.206	0.000	96	306290	25.0	24.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.395	3.395	0.000	97	439239	25.0	25.7	
37 Vinyl acetate	43	3.444	3.444	0.000	96	1185126	50.0	53.2	
44 2,2-Dichloropropane	77	3.846	3.846	0.000	94	224748	25.0	24.3	
45 cis-1,2-Dichloroethene	96	3.870	3.877	-0.007	84	245974	25.0	25.9	
43 2-Butanone (MEK)	43	3.901	3.901	0.000	97	766169	125.0	132.3	
48 Chlorobromomethane	128	4.072	4.072	0.000	95	141006	25.0	25.5	
49 Tetrahydrofuran	42	4.084	4.084	0.000	93	202425	50.0	48.6	
50 Chloroform	83	4.139	4.139	0.000	95	412538	25.0	24.0	
51 1,1,1-Trichloroethane	97	4.230	4.236	-0.006	98	332744	25.0	25.3	
52 Cyclohexane	56	4.242	4.242	0.000	96	394981	25.0	25.5	
55 Carbon tetrachloride	117	4.352	4.352	0.000	96	309207	25.0	24.9	
54 1,1-Dichloropropene	75	4.358	4.358	0.000	93	287874	25.0	25.4	
57 Benzene	78	4.529	4.529	0.000	98	804370	25.0	25.1	
53 Isobutyl alcohol	43	4.535	4.535	0.000	94	368141	625.0	646.1	
58 1,2-Dichloroethane	62	4.578	4.584	-0.006	96	338878	25.0	24.5	
59 n-Heptane	43	4.675	4.675	0.000	97	342288	25.0	21.8	
62 Trichloroethene	95	5.023	5.029	-0.006	97	231047	25.0	25.2	
64 Methylcyclohexane	83	5.126	5.126	0.000	98	312293	25.0	25.3	
65 1,2-Dichloropropane	63	5.218	5.218	0.000	94	234310	25.0	25.3	
67 Dibromomethane	93	5.327	5.328	-0.001	97	171126	25.0	25.9	
66 1,4-Dioxane	88	5.327	5.328	-0.001	37	38585	500.0	488.2	
68 Dichlorobromomethane	83	5.443	5.449	-0.006	97	296601	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	5.663	5.663	0.000	92	161106	25.0	27.6	
72 cis-1,3-Dichloropropene	75	5.772	5.779	-0.007	93	340833	25.0	26.2	
73 4-Methyl-2-pentanone (MIBK)	43	5.882	5.882	0.000	98	1599326	125.0	132.4	
74 Toluene	92	6.004	6.004	0.000	97	468752	25.0	24.7	
77 trans-1,3-Dichloropropene	75	6.218	6.218	0.000	96	298412	25.0	26.7	
75 Ethyl methacrylate	69	6.248	6.248	0.000	96	271789	25.0	27.3	
79 1,1,2-Trichloroethane	83	6.364	6.364	0.000	92	170195	25.0	25.6	
81 Tetrachloroethene	166	6.419	6.419	0.000	97	233662	25.0	25.4	
82 1,3-Dichloropropane	76	6.492	6.492	0.000	96	302549	25.0	25.6	
80 2-Hexanone	43	6.535	6.535	-0.001	99	1139738	125.0	133.2	
83 Chlorodibromomethane	129	6.675	6.675	0.000	90	260551	25.0	26.3	
84 Ethylene Dibromide	107	6.760	6.760	0.000	100	231912	25.0	26.5	
87 Chlorobenzene	112	7.126	7.126	0.000	99	551784	25.0	24.7	
88 Ethylbenzene	91	7.187	7.187	0.000	99	871286	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	7.193	7.193	0.000	97	224637	25.0	25.8	
90 m-Xylene & p-Xylene	106	7.278	7.278	0.000	99	342676	25.0	25.7	
91 o-Xylene	106	7.607	7.608	-0.001	96	345068	25.0	26.4	
92 Styrene	104	7.626	7.626	0.000	94	568935	25.0	26.2	
95 Bromoform	173	7.821	7.821	0.000	96	178024	25.0	26.2	
94 Isopropylbenzene	105	7.894	7.894	0.000	96	821005	25.0	27.0	
101 Bromobenzene	156	8.181	8.181	0.000	90	263193	25.0	25.7	
97 1,1,2,2-Tetrachloroethane	83	8.205	8.205	0.000	95	302790	25.0	25.7	
99 N-Propylbenzene	91	8.235	8.235	0.000	99	1049973	25.0	26.3	
100 1,2,3-Trichloropropane	110	8.235	8.235	0.000	86	77575	25.0	26.0	
98 trans-1,4-Dichloro-2-butene	53	8.241	8.242	-0.001	84	83810	25.0	23.7	
103 2-Chlorotoluene	126	8.321	8.327	-0.006	97	230788	25.0	26.1	
102 1,3,5-Trimethylbenzene	105	8.376	8.376	0.000	94	755797	25.0	26.5	
105 4-Chlorotoluene	126	8.418	8.412	0.006	97	232093	25.0	25.4	
106 tert-Butylbenzene	134	8.644	8.644	0.000	94	147593	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.687	8.687	0.000	97	776715	25.0	26.3	

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	8.821	8.821	0.000	95	983190	25.0	26.5	
110 4-Isopropyltoluene	119	8.943	8.943	0.000	98	861209	25.0	27.0	
111 1,3-Dichlorobenzene	146	8.949	8.949	0.000	98	485485	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.022	9.028	-0.006	96	497735	25.0	24.4	
115 n-Butylbenzene	91	9.290	9.290	0.000	99	787752	25.0	27.1	
116 1,2-Dichlorobenzene	146	9.345	9.345	0.000	99	490226	25.0	25.4	
117 1,2-Dibromo-3-Chloropropane	75	10.022	10.022	0.000	87	56547	25.0	27.0	
119 1,2,4-Trichlorobenzene	180	10.686	10.686	0.000	94	367571	25.0	26.7	
120 Hexachlorobutadiene	225	10.796	10.796	0.000	97	180259	25.0	25.3	
121 Naphthalene	128	10.900	10.900	0.000	97	899512	25.0	27.5	
122 1,2,3-Trichlorobenzene	180	11.095	11.095	0.000	96	346784	25.0	25.5	

QC Flag Legend

Processing Flags

Reagents:

SS GAS CORP_00594	Amount Added: 12.50	Units: uL	
SS 8260 CORP_00116	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

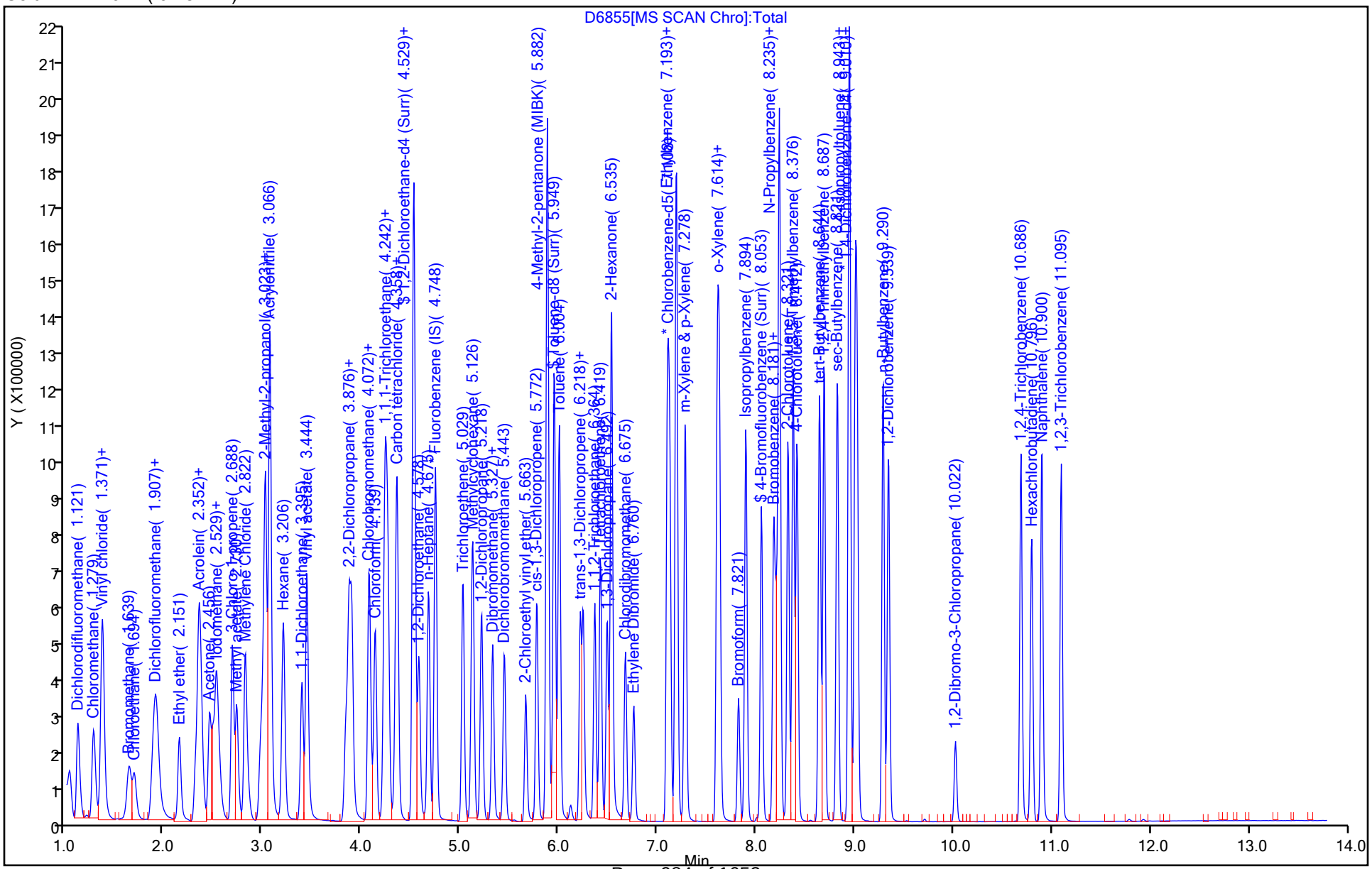
Report Date: 20-Sep-2024 12:00:45 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6855.d

Injection Date:	19-Sep-2024 23:11:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV			Worklist Smp#:	34
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	D-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.: 480-224872-1

SDG No.:

Lab Sample ID: ICV 480-725605/35 Calibration Date: 09/19/2024 23:34

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D6856.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	1.607	1.643		25.6	25.0	2.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9116	0.9788		26.8	25.0	7.4	30.0
Toluene-d8 (Surr)	Ave	2.413	2.399		24.9	25.0	-0.6	30.0

Report Date: 20-Sep-2024 12:00:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6856.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 19-Sep-2024 23:34:30 ALS Bottle#: 44 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120124-035
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 12:00:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:47:23

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	4.748	4.748	0.000	98	176490	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	88	355064	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	96	396730	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	289945	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	100	172741	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	851832	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	287992	25.0	24.2	
11 Chlorodifluoromethane	51	1.145	1.139	0.006	98	328806	25.0	27.2	
141 Ethanol	45	2.164	2.164	0.000	96	108031	1000.0	993.7	
19 Propene oxide	58	2.231	2.231	0.000	96	310724	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	98	200567	250.0	249.9	
29 Acetonitrile	40	2.737	2.737	0.000	100	225384	250.0	254.8	
36 Isopropyl ether	45	3.413	3.413	0.000	97	926767	25.0	27.1	
132 Halothane	117	3.438	3.432	0.006	91	165200	25.0	23.4	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	95	362661	25.0	28.3	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	99	207936	125.0	135.5	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	98	732104	25.0	26.6	
42 Ethyl acetate	43	3.931	3.932	-0.001	99	625516	50.0	52.1	
46 Propionitrile	54	3.986	3.980	0.006	99	451486	250.0	268.7	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	2035138	250.0	248.3	
146 Isooctane	57	4.529	4.529	0.000	97	788036	25.0	27.2	
140 t-Amyl alcohol	59	4.584	4.584	0.000	75	247001	250.0	236.6	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	94	688614	25.0	26.2	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	602816	25.0	28.5	
154 2,4,4-Trimethyl-1-pentene	55	4.937	4.931	0.006	98	163468	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	96	170483	625.0	756.1	
145 Ethyl acrylate	55	5.120	5.120	0.000	98	749252	25.0	26.3	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	90	359482	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	93	494817	50.0	51.5	
70 2-Nitropropane	43	5.638	5.639	-0.001	99	150508	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 Epichlorohydrin	57	5.736	5.736	0.000	98	289188	250.0	268.2	
155 n-Butyl acetate	43	6.614	6.614	0.000	97	485594	25.0	27.1	
139 1-Chlorohexane	55	7.077	7.077	0.000	93	216855	25.0	26.3	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	321403	25.0	28.1	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	95	290478	25.0	27.4	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	330979	25.0	27.7	
96 Cyclohexanone	55	8.034	8.034	0.000	96	99357	250.0	260.0	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	250377	25.0	27.5	
108 Pentachloroethane	167	8.699	8.699	0.000	92	139896	25.0	26.6	
114 Dicyclopentadiene	66	9.010	9.010	0.000	97	1092159	25.0	27.3	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	98	878363	25.0	28.3	
143 Benzyl chloride	91	9.150	9.150	0.000	99	420315	25.0	25.1	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	98	419976	25.0	29.4	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	93	573008	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3_MCP_Add_WRK_00456	Amount Added:	12.50	Units: uL	
SS ADD CORP_00093	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

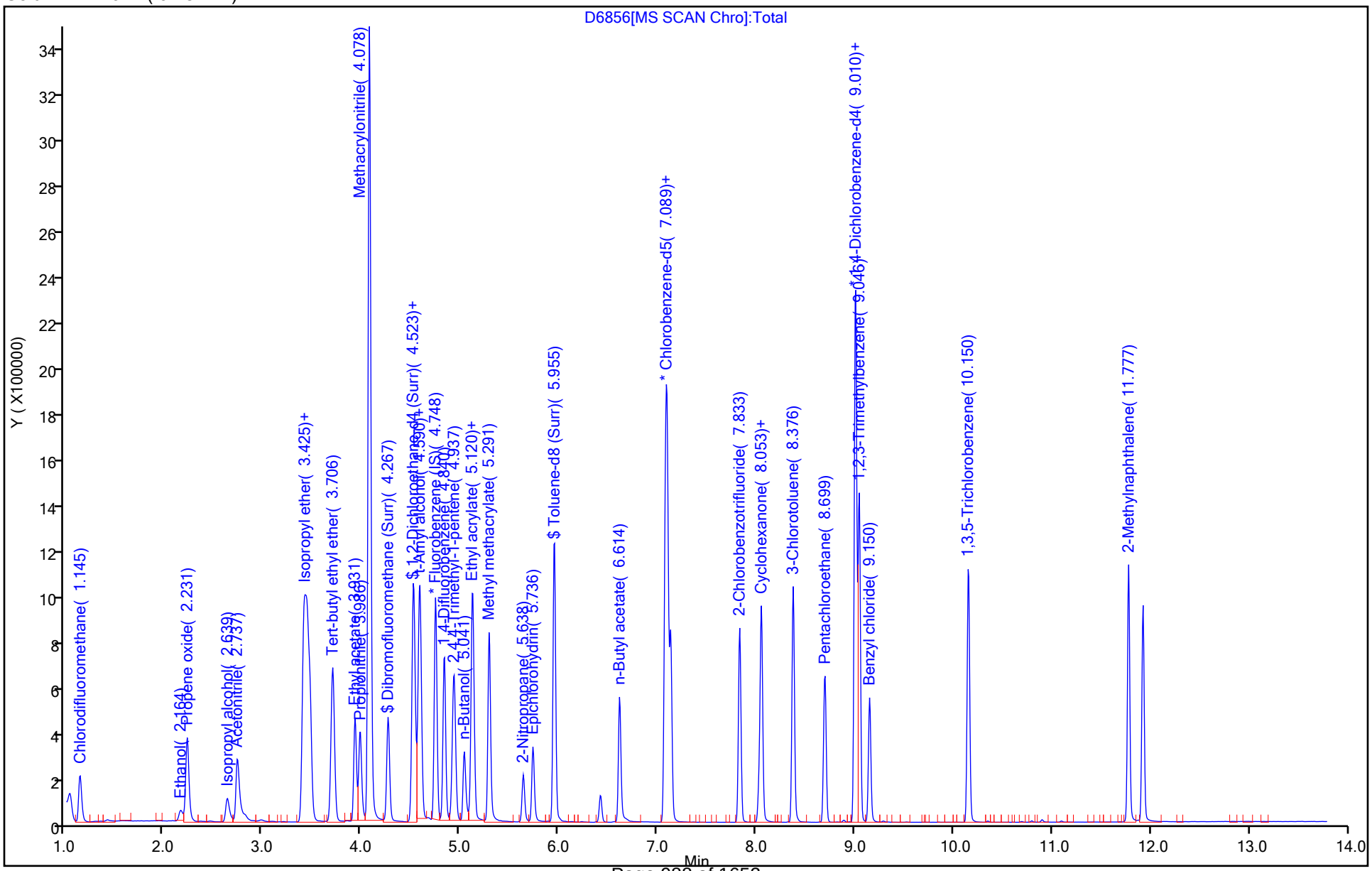
Report Date: 20-Sep-2024 12:00:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6856.d

Injection Date:	19-Sep-2024 23:34:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-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.: 480-224872-1

SDG No.:

Lab Sample ID: ICV 480-725605/35 Calibration Date: 09/19/2024 23:34

Instrument ID: HP5975D Calib Start Date: 09/19/2024 19:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/19/2024 22:05

Lab File ID: D6856.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	1.712	1.863		27.2	25.0	8.8	30.0
Ethanol	Lin1		0.0153		994	1000	-0.6	30.0
Isopropyl alcohol	Lin1		0.1136		250	250	-0.0	30.0
Acetonitrile	Ave	0.1253	0.1277		255	250	1.9	30.0
Isopropyl ether	Ave	4.852	5.251		27.1	25.0	8.2	30.0
Halothane	None				23.4	25.0	-6.4	30.0
Chloroprene	Ave	1.814	2.055		28.3	25.0	13.3	30.0
1,1-Dimethoxyethane	Ave	0.2173	0.2356		136	125	8.4	30.0
Tert-butyl ethyl ether	Ave	3.898	4.148		26.6	25.0	6.4	30.0
Ethyl acetate	Ave	1.701	1.772		52.1	50.0	4.2	30.0
Propionitrile	Ave	0.2380	0.2558		269	250	7.5	30.0
Methacrylonitrile	Ave	1.161	1.153		248	250	-0.7	30.0
Isooctane	Ave	4.103	4.465		27.2	25.0	8.8	30.0
t-Amyl alcohol	Lin1		0.1400		237	250	-5.4	30.0
Tert-amyl methyl ether	Ave	3.716	3.902		26.2	25.0	5.0	30.0
1,4-Difluorobenzene	Ave	2.999	3.416		28.5	25.0	13.9	30.0
n-Butanol	Ave	0.0319	0.0386		756	625	21.0	30.0
Ethyl acrylate	Ave	4.043	4.245		26.3	25.0	5.0	30.0
Methyl methacrylate	Ave	1.361	1.402		51.5	50.0	3.0	30.0
2-Nitropropane	Ave	0.1845	0.1897		51.4	50.0	2.8	30.0
Epichlorohydrin	Ave	0.1527	0.1639		268	250	7.3	30.0
n-Butyl acetate	Ave	1.262	1.368	0.1000	27.1	25.0	8.4	30.0
1-Chlorohexane	Lin1		0.6107		26.3	25.0	5.4	30.0
3-Chlorobenzotrifluoride	Ave	0.7218	0.8101		28.1	25.0	12.2	30.0
4-Chlorobenzotrifluoride	Ave	0.6680	0.7322		27.4	25.0	9.6	30.0
2-Chlorobenzotrifluoride	Ave	0.7517	0.8343		27.7	25.0	11.0	30.0
Cyclohexanone	Ave	0.0241	0.0250		260	250	4.0	30.0
3-Chlorotoluene	Ave	0.5744	0.6311		27.5	25.0	9.9	30.0
Pentachloroethane	Ave	0.3320	0.3526		26.6	25.0	6.2	30.0
Dicyclopentadiene	Ave	2.521	2.753		27.3	25.0	9.2	30.0
1,2,3-Trimethylbenzene	Ave	1.953	2.214		28.3	25.0	13.4	30.0
Benzyl chloride	Ave	1.053	1.059		25.1	25.0	0.6	30.0
1,3,5-Trichlorobenzene	Ave	0.9000	1.059		29.4	25.0	17.6	30.0
2-Methylnaphthalene	Lin1		1.444		26.4	25.0	5.4	30.0

Report Date: 20-Sep-2024 12:00:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6856.d
Lims ID: ICV ADD
Client ID:
Sample Type: ICV
Inject. Date: 19-Sep-2024 23:34:30 ALS Bottle#: 44 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV ADD
Misc. Info.: 480-0120124-035
Operator ID: LH Instrument ID: HP5975D
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 12:00:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 20-Sep-2024 11:47:23

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	4.748	4.748	0.000	98	176490	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.102	7.102	0.000	88	355064	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.004	9.004	0.000	96	396730	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.267	4.267	0.000	93	289945	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.523	4.523	0.000	100	172741	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	5.955	5.955	0.000	94	851832	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	8.053	8.053	0.000	94	287992	25.0	24.2	
11 Chlorodifluoromethane	51	1.145	1.139	0.006	98	328806	25.0	27.2	
141 Ethanol	45	2.164	2.164	0.000	96	108031	1000.0	993.7	
19 Propene oxide	58	2.231	2.231	0.000	96	310724	NC	NC	
24 Isopropyl alcohol	45	2.639	2.633	0.006	98	200567	250.0	249.9	
29 Acetonitrile	40	2.737	2.737	0.000	100	225384	250.0	254.8	
36 Isopropyl ether	45	3.413	3.413	0.000	97	926767	25.0	27.1	
132 Halothane	117	3.438	3.432	0.006	91	165200	25.0	23.4	
40 2-Chloro-1,3-butadiene	53	3.450	3.450	0.000	95	362661	25.0	28.3	
38 1,1-Dimethoxyethane	75	3.474	3.474	0.000	99	207936	125.0	135.5	
41 Tert-butyl ethyl ether	59	3.706	3.706	0.000	98	732104	25.0	26.6	
42 Ethyl acetate	43	3.931	3.932	-0.001	99	625516	50.0	52.1	
46 Propionitrile	54	3.986	3.980	0.006	99	451486	250.0	268.7	
47 Methacrylonitrile	41	4.078	4.078	0.000	97	2035138	250.0	248.3	
146 Isooctane	57	4.529	4.529	0.000	97	788036	25.0	27.2	
140 t-Amyl alcohol	59	4.584	4.584	0.000	75	247001	250.0	236.6	
56 Tert-amyl methyl ether	73	4.590	4.590	0.000	94	688614	25.0	26.2	
1 1,4-Difluorobenzene	114	4.840	4.840	0.000	95	602816	25.0	28.5	
154 2,4,4-Trimethyl-1-pentene	55	4.937	4.931	0.006	98	163468	NC	NC	
60 n-Butanol	56	5.041	5.041	0.000	96	170483	625.0	756.1	
145 Ethyl acrylate	55	5.120	5.120	0.000	98	749252	25.0	26.3	
153 2,4,4-Trimethyl-2-pentene	97	5.126	5.126	0.000	90	359482	NC	NC	
63 Methyl methacrylate	41	5.291	5.291	0.000	93	494817	50.0	51.5	
70 2-Nitropropane	43	5.638	5.639	-0.001	99	150508	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
71 Epichlorohydrin	57	5.736	5.736	0.000	98	289188	250.0	268.2	
155 n-Butyl acetate	43	6.614	6.614	0.000	97	485594	25.0	27.1	
139 1-Chlorohexane	55	7.077	7.077	0.000	93	216855	25.0	26.3	
85 3-Chlorobenzotrifluoride	180	7.089	7.089	0.000	94	321403	25.0	28.1	
86 4-Chlorobenzotrifluoride	180	7.132	7.132	0.000	95	290478	25.0	27.4	
93 2-Chlorobenzotrifluoride	180	7.833	7.833	0.000	98	330979	25.0	27.7	
96 Cyclohexanone	55	8.034	8.034	0.000	96	99357	250.0	260.0	
104 3-Chlorotoluene	126	8.376	8.376	0.000	97	250377	25.0	27.5	
108 Pentachloroethane	167	8.699	8.699	0.000	92	139896	25.0	26.6	
114 Dicyclopentadiene	66	9.010	9.010	0.000	97	1092159	25.0	27.3	
112 1,2,3-Trimethylbenzene	105	9.046	9.046	0.000	98	878363	25.0	28.3	
143 Benzyl chloride	91	9.150	9.150	0.000	99	420315	25.0	25.1	
118 1,3,5-Trichlorobenzene	180	10.156	10.150	0.006	98	419976	25.0	29.4	
142 2-Methylnaphthalene	142	11.777	11.778	-0.001	93	573008	25.0	26.4	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

3_MCP_Add_WRK_00456	Amount Added:	12.50	Units: uL	
SS ADD CORP_00093	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

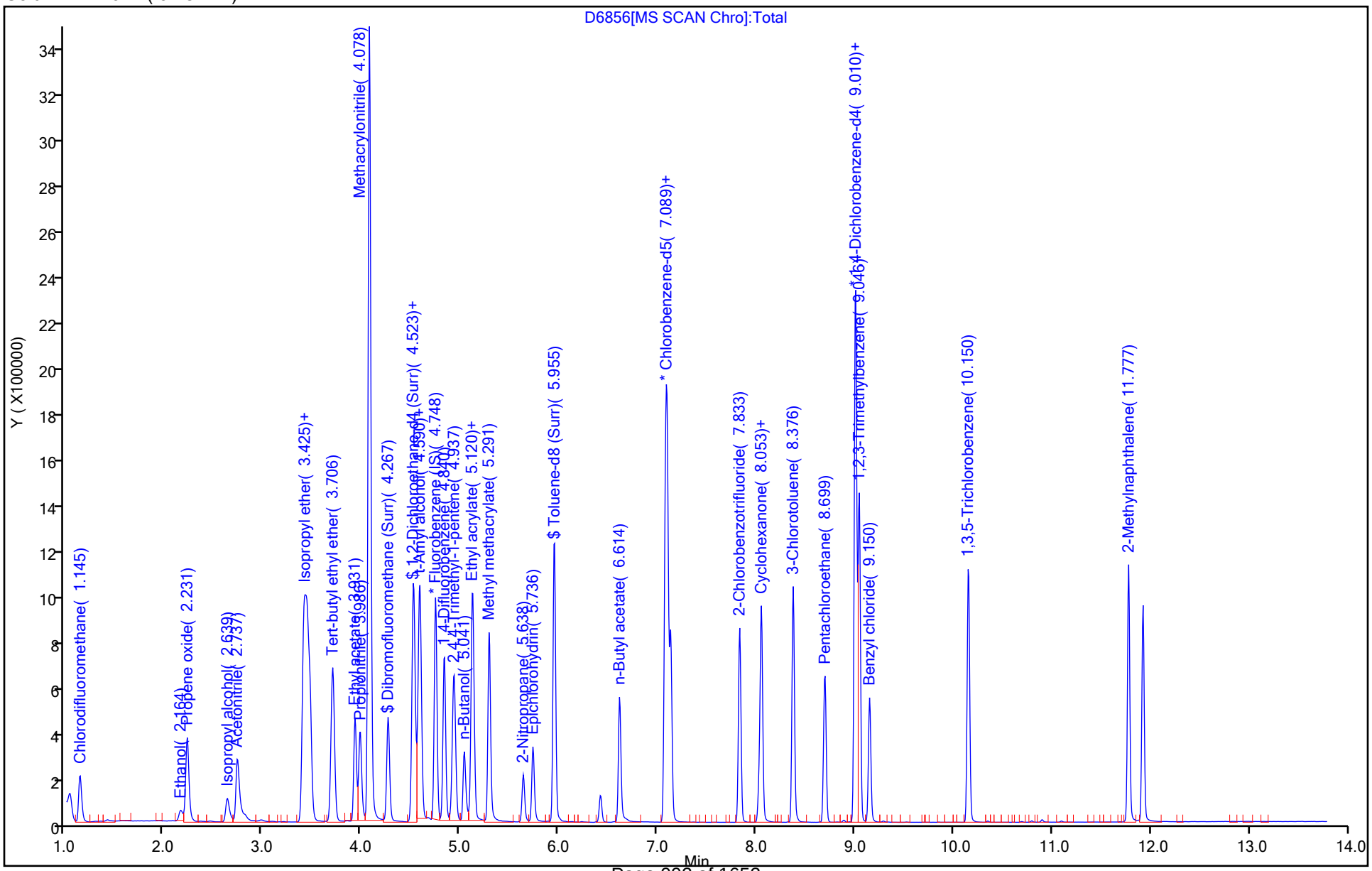
Report Date: 20-Sep-2024 12:00:59 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6856.d

Injection Date:	19-Sep-2024 23:34:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	ICV ADD			Worklist Smp#:	35
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	44
Method:	D-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.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730076/4 Calibration Date: 10/28/2024 11:53

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8337.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	2.011	1.500	0.1000	18.6	25.0	-25.4	50.0
Chloromethane	Ave	2.234	1.972	0.1000	22.1	25.0	-11.8	20.0
Vinyl chloride	Ave	1.376	1.368	0.1000	24.9	25.0	-0.5	20.0
Butadiene	Ave	1.366	1.490		27.3	25.0	9.1	20.0
Bromomethane	Ave	1.041	1.073	0.1000	25.8	25.0	3.1	50.0
Chloroethane	Ave	0.6918	0.7182	0.1000	26.0	25.0	3.8	50.0
Dichlorofluoromethane	Ave	2.243	2.713		30.2	25.0	20.9*	20.0
Trichlorofluoromethane	Ave	1.802	2.335	0.1000	32.4	25.0	29.6*	20.0
Ethyl ether	Ave	0.8865	0.9137		25.8	25.0	3.1	20.0
Acrolein	Ave	0.1426	0.1177		103	125	-17.4	50.0
1,1-Dichloroethene	Ave	1.030	1.126	0.1000	27.3	25.0	9.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.295	0.1000	28.1	25.0	12.5	20.0
Acetone	Ave	0.5291	0.5804	0.1000	137	125	9.7	50.0
Iodomethane	Ave	2.496	2.636		26.4	25.0	5.6	20.0
Carbon disulfide	Ave	3.756	3.828	0.1000	25.5	25.0	1.9	20.0
Allyl chloride	Ave	2.273	2.214		24.4	25.0	-2.6	20.0
Methyl acetate	Ave	1.341	1.293	0.1000	48.2	50.0	-3.6	50.0
Methylene Chloride	Lin1		1.297	0.1000	25.4	25.0	1.7	20.0
2-Methyl-2-propanol	Ave	0.1639	0.1775		271	250	8.4	50.0
Methyl tert-butyl ether	Ave	3.269	3.394	0.1000	26.0	25.0	3.8	20.0
trans-1,2-Dichloroethene	Ave	1.176	1.241	0.1000	26.4	25.0	5.6	20.0
Acrylonitrile	Ave	0.5971	0.5759		241	250	-3.6	20.0
Hexane	Ave	1.775	1.755		24.7	25.0	-1.2	20.0
1,1-Dichloroethane	Ave	2.387	2.369	0.2000	24.8	25.0	-0.7	20.0
Vinyl acetate	Ave	3.106	3.107		50.0	50.0	0.0	20.0
2,2-Dichloropropane	Ave	1.287	1.531		29.7	25.0	19.0	20.0
cis-1,2-Dichloroethene	Ave	1.323	1.326	0.1000	25.1	25.0	0.2	20.0
2-Butanone (MEK)	Ave	0.8070	0.8005	0.1000	124	125	-0.8	20.0
Chlorobromomethane	Ave	0.7697	0.8089		26.3	25.0	5.1	20.0
Tetrahydrofuran	Ave	0.5811	0.5046		43.4	50.0	-13.2	20.0
Chloroform	Ave	2.392	2.430	0.2000	25.4	25.0	1.6	20.0
1,1,1-Trichloroethane	Ave	1.835	2.083	0.1000	28.4	25.0	13.5	20.0
Cyclohexane	Ave	2.155	2.152	0.1000	25.0	25.0	-0.2	20.0
Carbon tetrachloride	Ave	1.732	2.004	0.1000	28.9	25.0	15.7	20.0
1,1-Dichloropropene	Ave	1.583	1.627		25.7	25.0	2.8	20.0
Benzene	Ave	4.461	4.298	0.5000	24.1	25.0	-3.7	20.0
Isobutyl alcohol	Ave	0.0794	0.0774		609	625	-2.6	50.0
1,2-Dichloroethane	Ave	1.931	2.007	0.1000	26.0	25.0	3.9	20.0
n-Heptane	Ave	2.186	2.013		23.0	25.0	-7.9	20.0
Trichloroethene	Ave	1.277	1.311	0.2000	25.7	25.0	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730076/4 Calibration Date: 10/28/2024 11:53

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8337.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	1.718	1.820	0.1000	26.5	25.0	5.9	20.0
1,2-Dichloropropane	Ave	1.289	1.207	0.1000	23.4	25.0	-6.4	20.0
Dibromomethane	Ave	0.9222	0.9702	0.1000	26.3	25.0	5.2	20.0
1,4-Dioxane	Lin1		0.0062		538	500	7.6	50.0
Bromodichloromethane	Ave	1.622	1.743	0.2000	26.9	25.0	7.5	20.0
2-Chloroethyl vinyl ether	Ave	0.8145	0.7624		23.4	25.0	-6.4	20.0
cis-1,3-Dichloropropene	Ave	1.814	1.821	0.2000	25.1	25.0	0.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8747	0.8673	0.1000	124	125	-0.8	20.0
Toluene	Ave	1.377	1.306	0.4000	23.7	25.0	-5.2	20.0
trans-1,3-Dichloropropene	Ave	0.8100	0.8140	0.1000	25.1	25.0	0.5	20.0
Ethyl methacrylate	Ave	0.7209	0.7410		25.7	25.0	2.8	20.0
1,1,2-Trichloroethane	Ave	0.4809	0.4522	0.1000	23.5	25.0	-6.0	20.0
Tetrachloroethene	Ave	0.6654	0.6962	0.2000	26.2	25.0	4.6	20.0
1,3-Dichloropropane	Ave	0.8565	0.8274		24.2	25.0	-3.4	20.0
2-Hexanone	Ave	0.6197	0.6327	0.1000	128	125	2.1	20.0
Dibromochloromethane	Ave	0.7172	0.7597	0.1000	26.5	25.0	5.9	20.0
1,2-Dibromoethane	Ave	0.6340	0.6396		25.2	25.0	0.9	20.0
Chlorobenzene	Ave	1.620	1.588	0.5000	24.5	25.0	-2.0	20.0
Ethylbenzene	Ave	2.486	2.475	0.1000	24.9	25.0	-0.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6309	0.6843		27.1	25.0	8.5	20.0
m,p-Xylene	Ave	0.9647	0.9832	0.1000	25.5	25.0	1.9	20.0
o-Xylene	Ave	0.9449	0.9590	0.3000	25.4	25.0	1.5	20.0
Styrene	Ave	1.571	1.568	0.3000	25.0	25.0	-0.2	20.0
Bromoform	Ave	0.4928	0.4826	0.1000	24.5	25.0	-2.1	50.0
Isopropylbenzene	Ave	2.011	2.134	0.1000	26.5	25.0	6.1	20.0
Bromobenzene	Ave	0.6782	0.6754		24.9	25.0	-0.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7790	0.7189	0.3000	23.1	25.0	-7.7	20.0
N-Propylbenzene	Ave	2.639	2.652		25.1	25.0	0.5	20.0
1,2,3-Trichloropropane	Ave	0.1975	0.2004		25.4	25.0	1.5	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0924		10.3	25.0	-58.9*	50.0
2-Chlorotoluene	Ave	0.5838	0.5891		25.2	25.0	0.9	20.0
1,3,5-Trimethylbenzene	Ave	1.884	1.937		25.7	25.0	2.8	20.0
4-Chlorotoluene	Ave	0.6042	0.5975		24.7	25.0	-1.1	20.0
tert-Butylbenzene	Ave	0.3607	0.3870		26.8	25.0	7.3	20.0
1,2,4-Trimethylbenzene	Ave	1.955	2.036		26.0	25.0	4.1	20.0
sec-Butylbenzene	Ave	2.454	2.550		26.0	25.0	3.9	20.0
4-Isopropyltoluene	Ave	2.110	2.259		26.8	25.0	7.1	20.0
1,3-Dichlorobenzene	Ave	1.286	1.247	0.6000	24.2	25.0	-3.0	20.0
1,4-Dichlorobenzene	Ave	1.346	1.264	0.5000	23.5	25.0	-6.1	20.0
n-Butylbenzene	Ave	1.919	2.038		26.6	25.0	6.2	20.0
1,2-Dichlorobenzene	Ave	1.278	1.287	0.4000	25.2	25.0	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730076/4 Calibration Date: 10/28/2024 11:53

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8337.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	0.1385	0.1448	0.0500	26.1	25.0	4.6	50.0
1,2,4-Trichlorobenzene	Ave	0.9100	1.013	0.2000	27.8	25.0	11.3	20.0
Hexachlorobutadiene	Ave	0.4706	0.5334		28.3	25.0	13.3	20.0
Naphthalene	Ave	2.165	2.387		27.6	25.0	10.2	20.0
1,2,3-Trichlorobenzene	Ave	0.8978	0.9927		27.6	25.0	10.6	20.0
Dibromofluoromethane (Surr)	Ave	1.607	1.763		27.4	25.0	9.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9116	0.9840		27.0	25.0	7.9	20.0
Toluene-d8 (Surr)	Ave	2.413	2.476		25.7	25.0	2.6	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8337.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Oct-2024 11:53:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120860-004
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 12:20:16 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: R3QB Date: 28-Oct-2024 12:20:16

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	4.730	4.730	0.000	98	96550	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.083	7.083	0.000	87	191630	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	94	216359	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.249	4.249	0.000	94	170234	25.0	27.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.505	4.505	0.000	99	95002	25.0	27.0	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	474565	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.040	8.040	0.000	95	166911	25.0	26.0	
10 Dichlorodifluoromethane	85	1.115	1.115	0.000	99	144779	25.0	18.6	
12 Chloromethane	50	1.267	1.267	0.000	99	190376	25.0	22.1	
13 Vinyl chloride	62	1.347	1.347	0.000	98	132105	25.0	24.9	
144 Butadiene	54	1.359	1.359	0.000	98	143884	25.0	27.3	
14 Bromomethane	94	1.615	1.615	0.000	92	103583	25.0	25.8	
15 Chloroethane	64	1.682	1.682	0.000	96	69339	25.0	26.0	
16 Dichlorofluoromethane	67	1.889	1.889	0.000	97	261957	25.0	30.2	
17 Trichlorofluoromethane	101	1.889	1.889	0.000	98	225435	25.0	32.4	
18 Ethyl ether	59	2.139	2.139	0.000	96	88216	25.0	25.8	
20 Acrolein	56	2.298	2.298	0.000	98	56834	125.0	103.2	
22 1,1-Dichloroethene	96	2.334	2.334	0.000	95	108700	25.0	27.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.340	2.340	0.000	94	124992	25.0	28.1	
23 Acetone	43	2.444	2.444	0.000	97	280207	125.0	137.1	
25 Iodomethane	142	2.481	2.481	0.000	98	254471	25.0	26.4	
26 Carbon disulfide	76	2.517	2.517	0.000	100	369591	25.0	25.5	
28 3-Chloro-1-propene	41	2.676	2.676	0.000	88	213743	25.0	24.4	
27 Methyl acetate	43	2.718	2.718	0.000	100	249658	50.0	48.2	
30 Methylene Chloride	84	2.804	2.804	0.000	96	125206	25.0	25.4	
31 2-Methyl-2-propanol	59	2.962	2.962	0.000	97	171421	250.0	270.9	
32 Methyl tert-butyl ether	73	2.999	2.999	0.000	98	327720	25.0	26.0	
34 trans-1,2-Dichloroethene	96	3.011	3.011	0.000	96	119864	25.0	26.4	
33 Acrylonitrile	53	3.054	3.054	0.000	96	556004	250.0	241.1	
35 Hexane	57	3.188	3.188	0.000	94	169430	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
39 1,1-Dichloroethane	63	3.377	3.377	0.000	97	228763	25.0	24.8	
37 Vinyl acetate	43	3.425	3.425	0.000	97	599936	50.0	50.0	
44 2,2-Dichloropropane	77	3.828	3.828	0.000	93	147864	25.0	29.7	M
45 cis-1,2-Dichloroethene	96	3.858	3.858	0.000	89	128039	25.0	25.1	
43 2-Butanone (MEK)	43	3.883	3.883	0.000	97	386442	125.0	124.0	
48 Chlorobromomethane	128	4.053	4.053	0.000	97	78104	25.0	26.3	
49 Tetrahydrofuran	42	4.072	4.072	0.000	91	97437	50.0	43.4	
50 Chloroform	83	4.120	4.120	0.000	95	234590	25.0	25.4	
51 1,1,1-Trichloroethane	97	4.218	4.218	0.000	99	201078	25.0	28.4	
52 Cyclohexane	56	4.224	4.224	0.000	97	207744	25.0	25.0	
55 Carbon tetrachloride	117	4.334	4.334	0.000	98	193442	25.0	28.9	
54 1,1-Dichloropropene	75	4.346	4.346	0.000	96	157072	25.0	25.7	
57 Benzene	78	4.511	4.511	0.000	96	414978	25.0	24.1	
53 Isobutyl alcohol	43	4.523	4.523	0.000	93	186751	625.0	608.8	
58 1,2-Dichloroethane	62	4.566	4.566	0.000	97	193777	25.0	26.0	
59 n-Heptane	43	4.663	4.663	0.000	97	194351	25.0	23.0	
62 Trichloroethene	95	5.011	5.011	0.000	96	126570	25.0	25.7	
64 Methylcyclohexane	83	5.108	5.108	0.000	98	175720	25.0	26.5	
65 1,2-Dichloropropane	63	5.200	5.200	0.000	92	116571	25.0	23.4	
67 Dibromomethane	93	5.309	5.309	0.000	96	93673	25.0	26.3	
66 1,4-Dioxane	88	5.315	5.315	0.000	79	23667	500.0	537.9	
68 Dichlorobromomethane	83	5.431	5.431	0.000	98	168266	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	5.651	5.651	0.000	93	73609	25.0	23.4	
72 cis-1,3-Dichloropropene	75	5.760	5.760	0.000	92	175823	25.0	25.1	
73 4-Methyl-2-pentanone (MIBK)	43	5.864	5.864	0.000	99	831048	125.0	124.0	
74 Toluene	92	5.986	5.986	0.000	98	250177	25.0	23.7	
77 trans-1,3-Dichloropropene	75	6.199	6.199	0.000	97	155980	25.0	25.1	
75 Ethyl methacrylate	69	6.230	6.230	0.000	97	141989	25.0	25.7	
79 1,1,2-Trichloroethane	83	6.346	6.346	0.000	93	86654	25.0	23.5	
81 Tetrachloroethene	166	6.407	6.407	0.000	96	133420	25.0	26.2	
82 1,3-Dichloropropane	76	6.474	6.474	0.000	96	158553	25.0	24.2	
80 2-Hexanone	43	6.516	6.516	0.000	100	606263	125.0	127.6	
83 Chlorodibromomethane	129	6.657	6.657	0.000	90	145582	25.0	26.5	
84 Ethylene Dibromide	107	6.742	6.742	0.000	99	122564	25.0	25.2	
87 Chlorobenzene	112	7.108	7.108	0.000	96	304385	25.0	24.5	
88 Ethylbenzene	91	7.175	7.175	0.000	99	474264	25.0	24.9	
89 1,1,1,2-Tetrachloroethane	131	7.181	7.181	0.000	95	131123	25.0	27.1	
90 m-Xylene & p-Xylene	106	7.266	7.266	0.000	99	188413	25.0	25.5	
91 o-Xylene	106	7.589	7.589	0.000	97	183777	25.0	25.4	
92 Styrene	104	7.614	7.614	0.000	95	300468	25.0	25.0	
95 Bromoform	173	7.809	7.809	0.000	97	92483	25.0	24.5	
94 Isopropylbenzene	105	7.882	7.882	0.000	96	461750	25.0	26.5	
101 Bromobenzene	156	8.162	8.162	0.000	90	146128	25.0	24.9	
97 1,1,2,2-Tetrachloroethane	83	8.187	8.187	0.000	96	155535	25.0	23.1	
99 N-Propylbenzene	91	8.217	8.217	0.000	98	573749	25.0	25.1	
100 1,2,3-Trichloropropane	110	8.223	8.223	0.000	88	43361	25.0	25.4	
98 trans-1,4-Dichloro-2-butene	53	8.229	8.229	0.000	79	19994	25.0	10.3	
103 2-Chlorotoluene	126	8.309	8.309	0.000	97	127462	25.0	25.2	
102 1,3,5-Trimethylbenzene	105	8.364	8.364	0.000	94	419178	25.0	25.7	
105 4-Chlorotoluene	126	8.400	8.400	0.000	97	129280	25.0	24.7	
106 tert-Butylbenzene	134	8.632	8.632	0.000	93	83734	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	8.674	8.674	0.000	98	440445	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.809	8.809	0.000	95	551812	25.0	26.0	
110 4-Isopropyltoluene	119	8.931	8.931	0.000	97	488814	25.0	26.8	
111 1,3-Dichlorobenzene	146	8.937	8.937	0.000	98	269809	25.0	24.2	
113 1,4-Dichlorobenzene	146	9.010	9.010	0.000	96	273487	25.0	23.5	
115 n-Butylbenzene	91	9.272	9.272	0.000	98	440990	25.0	26.6	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.000	99	278354	25.0	25.2	
117 1,2-Dibromo-3-Chloropropane	75	10.003	10.003	0.000	87	31327	25.0	26.1	
119 1,2,4-Trichlorobenzene	180	10.674	10.674	0.000	95	219065	25.0	27.8	
120 Hexachlorobutadiene	225	10.778	10.778	0.000	97	115415	25.0	28.3	
121 Naphthalene	128	10.881	10.881	0.000	97	516474	25.0	27.6	
122 1,2,3-Trichlorobenzene	180	11.083	11.083	0.000	96	214780	25.0	27.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

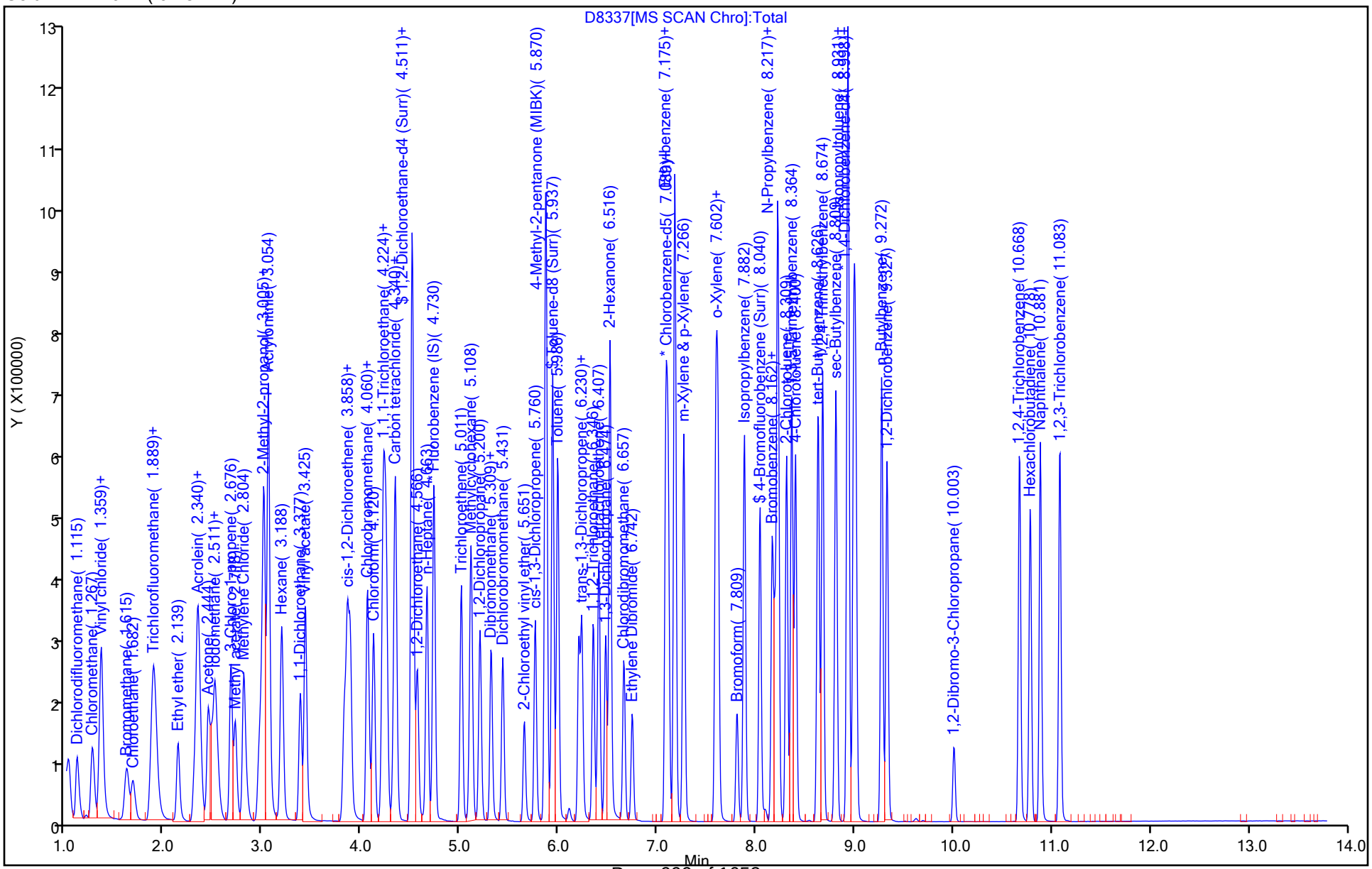
Report Date: 28-Oct-2024 12:20:17 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8337.d

Injection Date:	28-Oct-2024 11:53:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo

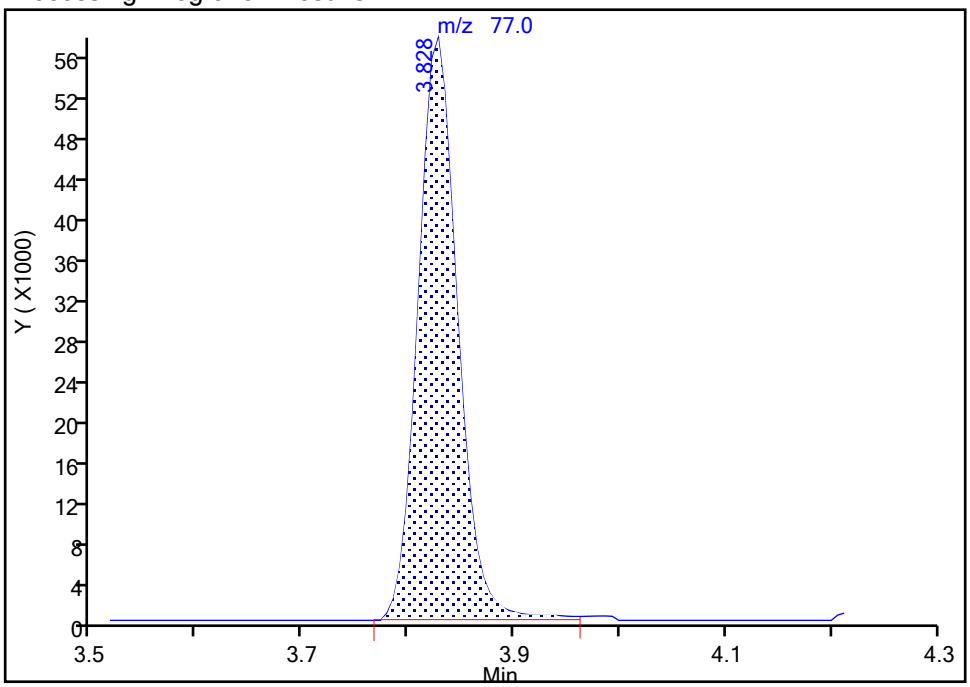
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Injection Date: 28-Oct-2024 11:53:30 Instrument ID: HP5975D
Lims ID: CCVIS
Client ID:
Operator ID: AK ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

44 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

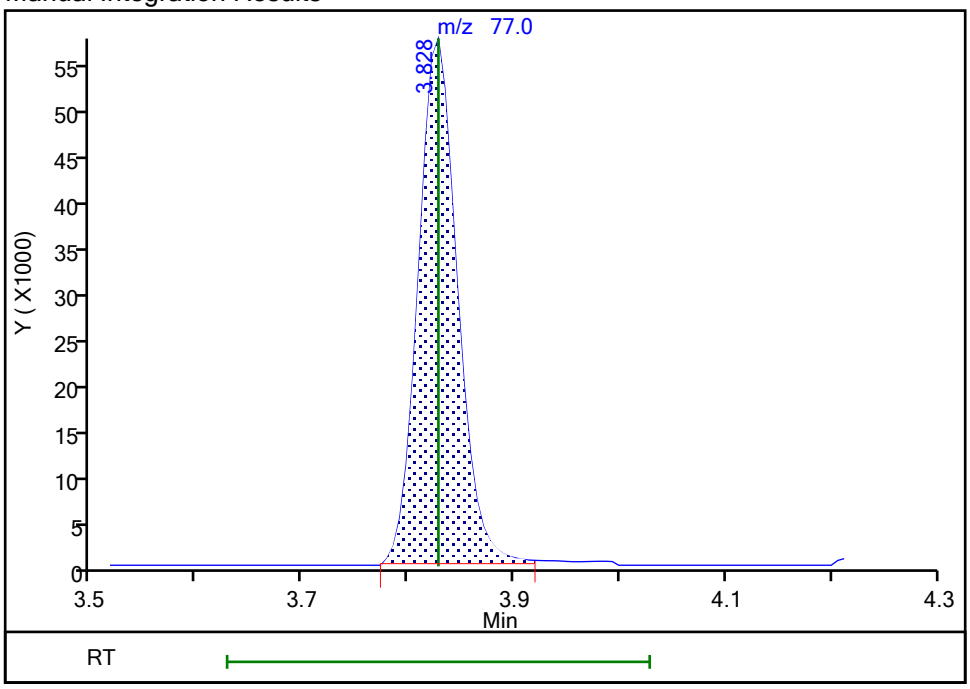
Processing Integration Results

RT: 3.83
Area: 149253
Amount: 30.017833
Amount Units: ug/L



Manual Integration Results

RT: 3.83
Area: 147864
Amount: 29.738477
Amount Units: ug/L



Reviewer: R3QB, 28-Oct-2024 12:18:47 -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.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730119/4 Calibration Date: 10/29/2024 00:51

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8372.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	2.011	1.468	0.1000	18.2	25.0	-27.0	50.0
Chloromethane	Ave	2.234	1.920	0.1000	21.5	25.0	-14.1	20.0
Vinyl chloride	Ave	1.376	1.350	0.1000	24.5	25.0	-1.9	20.0
Butadiene	Ave	1.366	1.415		25.9	25.0	3.6	20.0
Bromomethane	Ave	1.041	1.087	0.1000	26.1	25.0	4.4	50.0
Chloroethane	Ave	0.6918	0.7299	0.1000	26.4	25.0	5.5	50.0
Dichlorofluoromethane	Ave	2.243	2.689		30.0	25.0	19.9	20.0
Trichlorofluoromethane	Ave	1.802	2.343	0.1000	32.5	25.0	30.0*	20.0
Ethyl ether	Ave	0.8865	0.9257		26.1	25.0	4.4	20.0
Acrolein	Ave	0.1426	0.1015		89.0	125	-28.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.291	0.1000	28.0	25.0	12.1	20.0
1,1-Dichloroethene	Ave	1.030	1.134	0.1000	27.5	25.0	10.1	20.0
Acetone	Ave	0.5291	0.5550	0.1000	131	125	4.9	50.0
Iodomethane	Ave	2.496	2.698		27.0	25.0	8.1	20.0
Carbon disulfide	Ave	3.756	3.904	0.1000	26.0	25.0	4.0	20.0
Allyl chloride	Ave	2.273	2.129		23.4	25.0	-6.3	20.0
Methyl acetate	Ave	1.341	1.299	0.1000	48.4	50.0	-3.1	50.0
Methylene Chloride	Lin1		1.297	0.1000	25.4	25.0	1.8	20.0
2-Methyl-2-propanol	Ave	0.1639	0.1758		268	250	7.3	50.0
Methyl tert-butyl ether	Ave	3.269	3.350	0.1000	25.6	25.0	2.5	20.0
trans-1,2-Dichloroethene	Ave	1.176	1.273	0.1000	27.1	25.0	8.3	20.0
Acrylonitrile	Ave	0.5971	0.5671		237	250	-5.0	20.0
Hexane	Ave	1.775	1.628		22.9	25.0	-8.3	20.0
1,1-Dichloroethane	Ave	2.387	2.434	0.2000	25.5	25.0	2.0	20.0
Vinyl acetate	Ave	3.106	2.995		48.2	50.0	-3.6	20.0
2,2-Dichloropropane	Ave	1.287	1.400		27.2	25.0	8.7	20.0
cis-1,2-Dichloroethene	Ave	1.323	1.354	0.1000	25.6	25.0	2.4	20.0
2-Butanone (MEK)	Ave	0.8070	0.7971	0.1000	123	125	-1.2	20.0
Chlorobromomethane	Ave	0.7697	0.8184		26.6	25.0	6.3	20.0
Tetrahydrofuran	Ave	0.5811	0.5055		43.5	50.0	-13.0	20.0
Chloroform	Ave	2.392	2.478	0.2000	25.9	25.0	3.6	20.0
1,1,1-Trichloroethane	Ave	1.835	2.140	0.1000	29.1	25.0	16.6	20.0
Cyclohexane	Ave	2.155	2.155	0.1000	25.0	25.0	-0.0	20.0
Carbon tetrachloride	Ave	1.732	2.078	0.1000	30.0	25.0	20.0	20.0
1,1-Dichloropropene	Ave	1.583	1.699		26.8	25.0	7.4	20.0
Benzene	Ave	4.461	4.453	0.5000	25.0	25.0	-0.2	20.0
Isobutyl alcohol	Ave	0.0794	0.0788		620	625	-0.8	50.0
1,2-Dichloroethane	Ave	1.931	2.040	0.1000	26.4	25.0	5.6	20.0
n-Heptane	Ave	2.186	1.861		21.3	25.0	-14.9	20.0
Trichloroethene	Ave	1.277	1.358	0.2000	26.6	25.0	6.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730119/4 Calibration Date: 10/29/2024 00:51

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8372.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	1.718	1.803	0.1000	26.2	25.0	4.9	20.0
1,2-Dichloropropane	Ave	1.289	1.247	0.1000	24.2	25.0	-3.3	20.0
Dibromomethane	Ave	0.9222	0.996	0.1000	27.0	25.0	8.0	20.0
1,4-Dioxane	Lin1		0.0058		508	500	1.6	50.0
Bromodichloromethane	Ave	1.622	1.777	0.2000	27.4	25.0	9.6	20.0
2-Chloroethyl vinyl ether	Ave	0.8145	0.8278		25.4	25.0	1.6	20.0
cis-1,3-Dichloropropene	Ave	1.814	1.846	0.2000	25.4	25.0	1.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8747	0.8838	0.1000	126	125	1.0	20.0
Toluene	Ave	1.377	1.381	0.4000	25.1	25.0	0.3	20.0
trans-1,3-Dichloropropene	Ave	0.8100	0.8350	0.1000	25.8	25.0	3.1	20.0
Ethyl methacrylate	Ave	0.7209	0.7687		26.7	25.0	6.6	20.0
1,1,2-Trichloroethane	Ave	0.4809	0.4732	0.1000	24.6	25.0	-1.6	20.0
Tetrachloroethene	Ave	0.6654	0.7255	0.2000	27.3	25.0	9.0	20.0
1,3-Dichloropropane	Ave	0.8565	0.8471		24.7	25.0	-1.1	20.0
2-Hexanone	Ave	0.6197	0.6336	0.1000	128	125	2.2	20.0
Dibromochloromethane	Ave	0.7172	0.7943	0.1000	27.7	25.0	10.7	20.0
1,2-Dibromoethane	Ave	0.6340	0.6580		25.9	25.0	3.8	20.0
Chlorobenzene	Ave	1.620	1.650	0.5000	25.5	25.0	1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6309	0.7063		28.0	25.0	12.0	20.0
Ethylbenzene	Ave	2.486	2.607	0.1000	26.2	25.0	4.9	20.0
m,p-Xylene	Ave	0.9647	1.029	0.1000	26.7	25.0	6.7	20.0
o-Xylene	Ave	0.9449	1.020	0.3000	27.0	25.0	8.0	20.0
Styrene	Ave	1.571	1.685	0.3000	26.8	25.0	7.3	20.0
Bromoform	Ave	0.4928	0.5218	0.1000	26.5	25.0	5.9	50.0
Isopropylbenzene	Ave	2.011	2.120	0.1000	26.4	25.0	5.4	20.0
Bromobenzene	Ave	0.6782	0.7004		25.8	25.0	3.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7790	0.7215	0.3000	23.2	25.0	-7.4	20.0
1,2,3-Trichloropropane	Ave	0.1975	0.2064		26.1	25.0	4.5	20.0
N-Propylbenzene	Ave	2.639	2.670		25.3	25.0	1.2	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.0749		8.46	25.0	-66.2*	50.0
2-Chlorotoluene	Ave	0.5838	0.5997		25.7	25.0	2.7	20.0
1,3,5-Trimethylbenzene	Ave	1.884	1.969		26.1	25.0	4.5	20.0
4-Chlorotoluene	Ave	0.6042	0.6202		25.7	25.0	2.7	20.0
tert-Butylbenzene	Ave	0.3607	0.3893		27.0	25.0	7.9	20.0
1,2,4-Trimethylbenzene	Ave	1.955	2.052		26.2	25.0	5.0	20.0
sec-Butylbenzene	Ave	2.454	2.577		26.3	25.0	5.0	20.0
4-Isopropyltoluene	Ave	2.110	2.261		26.8	25.0	7.2	20.0
1,3-Dichlorobenzene	Ave	1.286	1.296	0.6000	25.2	25.0	0.8	20.0
1,4-Dichlorobenzene	Ave	1.346	1.336	0.5000	24.8	25.0	-0.7	20.0
n-Butylbenzene	Ave	1.919	2.004		26.1	25.0	4.4	20.0
1,2-Dichlorobenzene	Ave	1.278	1.315	0.4000	25.7	25.0	3.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730119/4 Calibration Date: 10/29/2024 00:51

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8372.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	0.1385	0.1446	0.0500	26.1	25.0	4.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9100	0.9646	0.2000	26.5	25.0	6.0	20.0
Hexachlorobutadiene	Ave	0.4706	0.5254		27.9	25.0	11.6	20.0
Naphthalene	Ave	2.165	2.327		26.9	25.0	7.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8978	0.9497		26.4	25.0	5.8	20.0
Dibromofluoromethane (Surr)	Ave	1.607	1.739		27.0	25.0	8.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9116	0.9805		26.9	25.0	7.6	20.0
Toluene-d8 (Surr)	Ave	2.413	2.480		25.7	25.0	2.8	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8372.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Oct-2024 00:51:30 ALS Bottle#: 37 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120866-004
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:01:26 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:01:26

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	4.736	4.736	0.000	98	96896	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	94	191791	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.998	0.000	95	222143	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.255	0.000	94	168508	25.0	27.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.511	0.000	98	95007	25.0	26.9	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	475708	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.047	8.047	0.000	95	170736	25.0	26.6	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	142261	25.0	18.2	
12 Chloromethane	50	1.273	1.273	0.000	99	186014	25.0	21.5	
13 Vinyl chloride	62	1.347	1.347	0.000	97	130810	25.0	24.5	
144 Butadiene	54	1.365	1.365	0.000	98	137118	25.0	25.9	
14 Bromomethane	94	1.621	1.621	0.000	92	105318	25.0	26.1	
15 Chloroethane	64	1.688	1.688	0.000	95	70727	25.0	26.4	
16 Dichlorofluoromethane	67	1.895	1.895	0.000	96	260537	25.0	30.0	
17 Trichlorofluoromethane	101	1.895	1.895	0.000	59	226980	25.0	32.5	
18 Ethyl ether	59	2.145	2.145	0.000	97	89696	25.0	26.1	
20 Acrolein	56	2.304	2.304	0.000	98	49179	125.0	89.0	
22 1,1-Dichloroethene	96	2.346	2.346	0.000	94	109923	25.0	27.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.346	2.346	0.000	95	125052	25.0	28.0	
23 Acetone	43	2.450	2.450	0.000	97	268910	125.0	131.1	
25 Iodomethane	142	2.493	2.493	0.000	99	261469	25.0	27.0	
26 Carbon disulfide	76	2.529	2.529	0.000	100	378314	25.0	26.0	
28 3-Chloro-1-propene	41	2.682	2.682	0.000	88	206282	25.0	23.4	
27 Methyl acetate	43	2.724	2.724	0.000	100	251813	50.0	48.4	
30 Methylene Chloride	84	2.810	2.810	0.000	97	125713	25.0	25.4	
31 2-Methyl-2-propanol	59	2.968	2.968	0.000	97	170371	250.0	268.3	
32 Methyl tert-butyl ether	73	3.005	3.005	0.000	99	324605	25.0	25.6	
34 trans-1,2-Dichloroethene	96	3.017	3.017	0.000	95	123388	25.0	27.1	
33 Acrylonitrile	53	3.060	3.060	0.000	96	549500	250.0	237.4	
35 Hexane	57	3.194	3.194	0.000	95	157742	25.0	22.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.383	3.383	0.000	97	235884	25.0	25.5	
37 Vinyl acetate	43	3.432	3.432	0.000	97	580367	50.0	48.2	
44 2,2-Dichloropropane	77	3.834	3.834	0.000	91	135607	25.0	27.2	
45 cis-1,2-Dichloroethene	96	3.864	3.864	0.000	84	131239	25.0	25.6	
43 2-Butanone (MEK)	43	3.889	3.889	0.000	97	386199	125.0	123.5	
48 Chlorobromomethane	128	4.060	4.060	0.000	97	79295	25.0	26.6	
49 Tetrahydrofuran	42	4.078	4.078	0.000	91	97954	50.0	43.5	
50 Chloroform	83	4.127	4.127	0.000	95	240063	25.0	25.9	
51 1,1,1-Trichloroethane	97	4.224	4.224	0.000	99	207317	25.0	29.1	
52 Cyclohexane	56	4.230	4.230	0.000	97	208810	25.0	25.0	
55 Carbon tetrachloride	117	4.340	4.340	0.000	96	201335	25.0	30.0	
54 1,1-Dichloropropene	75	4.346	4.346	0.000	93	164627	25.0	26.8	
57 Benzene	78	4.517	4.517	0.000	97	431521	25.0	25.0	
53 Isobutyl alcohol	43	4.523	4.523	0.000	92	190923	625.0	620.2	
58 1,2-Dichloroethane	62	4.572	4.572	0.000	97	197638	25.0	26.4	
59 n-Heptane	43	4.669	4.669	0.000	96	180355	25.0	21.3	
62 Trichloroethene	95	5.017	5.017	0.000	96	131609	25.0	26.6	
64 Methylcyclohexane	83	5.114	5.114	0.000	98	174701	25.0	26.2	
65 1,2-Dichloropropane	63	5.206	5.206	0.000	92	120797	25.0	24.2	
67 Dibromomethane	93	5.315	5.315	0.000	96	96494	25.0	27.0	
66 1,4-Dioxane	88	5.321	5.321	0.000	45	22337	500.0	508.1	
68 Dichlorobromomethane	83	5.437	5.437	0.000	97	172145	25.0	27.4	
69 2-Chloroethyl vinyl ether	63	5.651	5.651	0.000	93	80210	25.0	25.4	
72 cis-1,3-Dichloropropene	75	5.766	5.766	0.000	92	178829	25.0	25.4	
73 4-Methyl-2-pentanone (MIBK)	43	5.870	5.870	0.000	99	847567	125.0	126.3	
74 Toluene	92	5.992	5.992	0.000	97	264834	25.0	25.1	
77 trans-1,3-Dichloropropene	75	6.205	6.205	0.000	97	160136	25.0	25.8	
75 Ethyl methacrylate	69	6.236	6.236	0.000	96	147434	25.0	26.7	
79 1,1,2-Trichloroethane	83	6.352	6.352	0.000	94	90755	25.0	24.6	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	139146	25.0	27.3	
82 1,3-Dichloropropane	76	6.480	6.480	0.000	95	162472	25.0	24.7	
80 2-Hexanone	43	6.522	6.522	0.000	99	607588	125.0	127.8	
83 Chlorodibromomethane	129	6.663	6.663	0.000	90	152335	25.0	27.7	
84 Ethylene Dibromide	107	6.748	6.748	0.000	99	126192	25.0	25.9	
87 Chlorobenzene	112	7.114	7.114	0.000	97	316386	25.0	25.5	
88 Ethylbenzene	91	7.181	7.181	0.000	99	500011	25.0	26.2	
89 1,1,1,2-Tetrachloroethane	131	7.181	7.181	0.000	96	135469	25.0	28.0	
90 m-Xylene & p-Xylene	106	7.272	7.272	0.000	99	197438	25.0	26.7	
91 o-Xylene	106	7.595	7.595	0.000	97	195692	25.0	27.0	
92 Styrene	104	7.620	7.620	0.000	95	323235	25.0	26.8	
95 Bromoform	173	7.809	7.809	0.000	96	100071	25.0	26.5	
94 Isopropylbenzene	105	7.888	7.888	0.000	96	470921	25.0	26.4	
101 Bromobenzene	156	8.168	8.168	0.000	89	155585	25.0	25.8	
97 1,1,2,2-Tetrachloroethane	83	8.193	8.193	0.000	95	160270	25.0	23.2	
99 N-Propylbenzene	91	8.223	8.223	0.000	99	593154	25.0	25.3	
100 1,2,3-Trichloropropane	110	8.223	8.223	0.000	88	45852	25.0	26.1	
98 trans-1,4-Dichloro-2-butene	53	8.229	8.229	0.000	75	16648	25.0	8.46	
103 2-Chlorotoluene	126	8.315	8.315	0.000	97	133219	25.0	25.7	
102 1,3,5-Trimethylbenzene	105	8.364	8.364	0.000	93	437412	25.0	26.1	
105 4-Chlorotoluene	126	8.406	8.406	0.000	96	137773	25.0	25.7	
106 tert-Butylbenzene	134	8.632	8.632	0.000	93	86471	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.681	8.681	0.000	97	455913	25.0	26.2	

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	8.815	8.815	0.000	95	572469	25.0	26.3	
110 4-Isopropyltoluene	119	8.931	8.931	0.000	98	502295	25.0	26.8	
111 1,3-Dichlorobenzene	146	8.937	8.937	0.000	98	287805	25.0	25.2	
113 1,4-Dichlorobenzene	146	9.016	9.016	0.000	96	296814	25.0	24.8	
115 n-Butylbenzene	91	9.278	9.278	0.000	98	445111	25.0	26.1	
116 1,2-Dichlorobenzene	146	9.333	9.333	0.000	99	292200	25.0	25.7	
117 1,2-Dibromo-3-Chloropropane	75	10.010	10.010	0.000	87	32114	25.0	26.1	
119 1,2,4-Trichlorobenzene	180	10.674	10.674	0.000	95	214279	25.0	26.5	
120 Hexachlorobutadiene	225	10.784	10.784	0.000	96	116716	25.0	27.9	
121 Naphthalene	128	10.887	10.887	0.000	97	516892	25.0	26.9	
122 1,2,3-Trichlorobenzene	180	11.083	11.083	0.000	96	210964	25.0	26.4	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

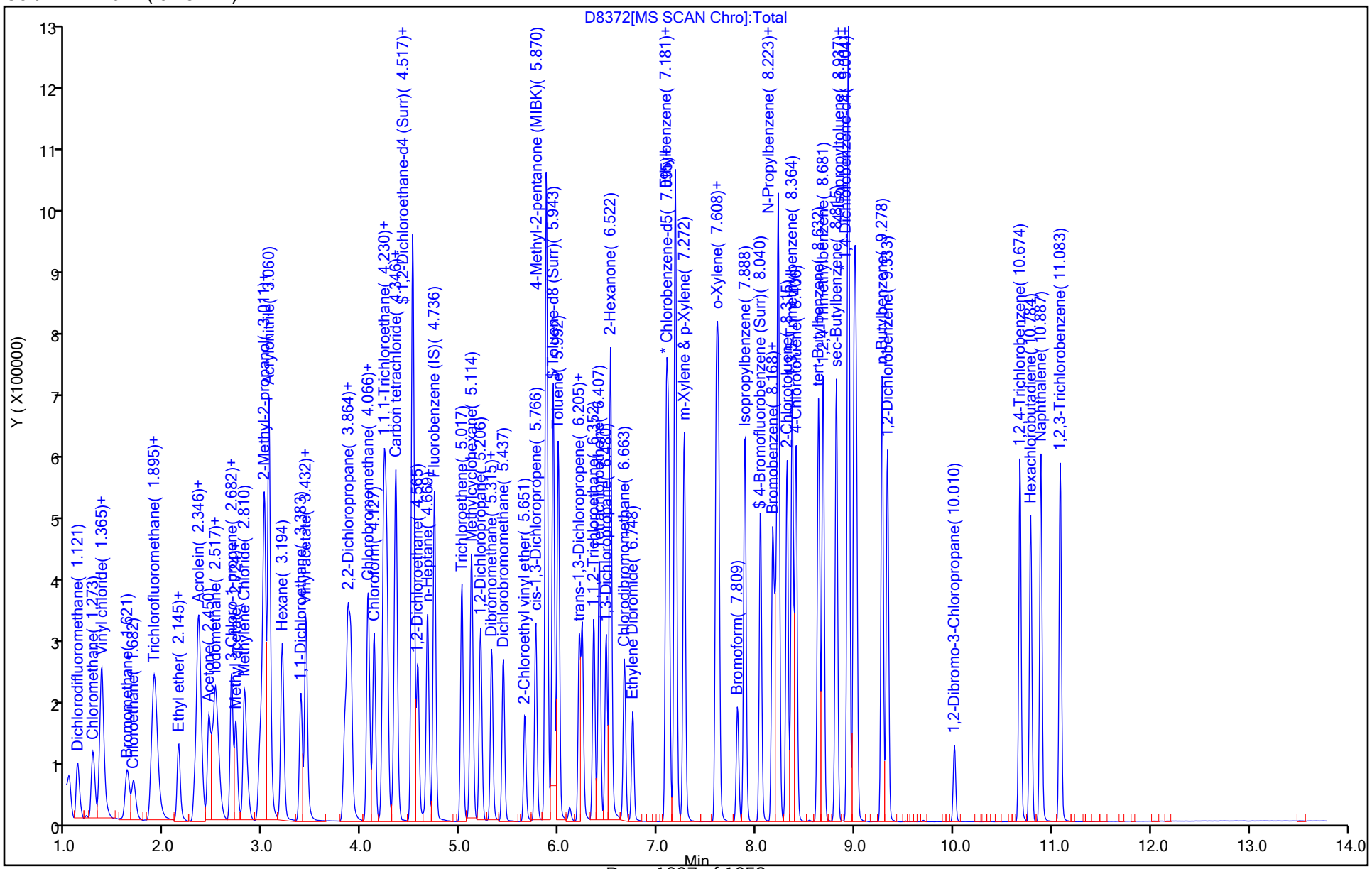
Report Date: 29-Oct-2024 14:01:27 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8372.d

Injection Date:	29-Oct-2024 00:51:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	D-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.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730274/4 Calibration Date: 10/29/2024 13:26

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8406.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	2.011	2.373	0.1000	29.5	25.0	18.0	50.0
Chloromethane	Ave	2.234	2.249	0.1000	25.2	25.0	0.7	20.0
Vinyl chloride	Ave	1.376	1.508	0.1000	27.4	25.0	9.6	20.0
Butadiene	Ave	1.366	1.584		29.0	25.0	15.9	20.0
Bromomethane	Ave	1.041	1.117	0.1000	26.8	25.0	7.3	50.0
Chloroethane	Ave	0.6918	0.7199	0.1000	26.0	25.0	4.1	50.0
Dichlorofluoromethane	Ave	2.243	2.569		28.6	25.0	14.5	20.0
Trichlorofluoromethane	Ave	1.802	2.369	0.1000	32.9	25.0	31.5*	20.0
Ethyl ether	Ave	0.8865	0.9322		26.3	25.0	5.2	20.0
Acrolein	Ave	0.1426	0.1163		102	125	-18.4	50.0
1,1-Dichloroethene	Ave	1.030	1.130	0.1000	27.4	25.0	9.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.314	0.1000	28.5	25.0	14.2	20.0
Acetone	Ave	0.5291	0.6158	0.1000	145	125	16.4	50.0
Iodomethane	Ave	2.496	2.662		26.7	25.0	6.6	20.0
Carbon disulfide	Ave	3.756	3.888	0.1000	25.9	25.0	3.5	20.0
Allyl chloride	Ave	2.273	2.201		24.2	25.0	-3.1	20.0
Methyl acetate	Ave	1.341	1.320	0.1000	49.2	50.0	-1.6	50.0
Methylene Chloride	Lin1		1.312	0.1000	25.7	25.0	3.0	20.0
2-Methyl-2-propanol	Ave	0.1639	0.1833		280	250	11.9	50.0
Methyl tert-butyl ether	Ave	3.269	3.315	0.1000	25.4	25.0	1.4	20.0
trans-1,2-Dichloroethene	Ave	1.176	1.264	0.1000	26.9	25.0	7.5	20.0
Acrylonitrile	Ave	0.5971	0.5772		242	250	-3.3	20.0
Hexane	Ave	1.775	1.881		26.5	25.0	6.0	20.0
1,1-Dichloroethane	Ave	2.387	2.443	0.2000	25.6	25.0	2.4	20.0
Vinyl acetate	Ave	3.106	3.284		52.9	50.0	5.7	20.0
2,2-Dichloropropane	Ave	1.287	1.581		30.7	25.0	22.8*	20.0
cis-1,2-Dichloroethene	Ave	1.323	1.350	0.1000	25.5	25.0	2.0	20.0
2-Butanone (MEK)	Ave	0.8070	0.8496	0.1000	132	125	5.3	20.0
Chlorobromomethane	Ave	0.7697	0.8163		26.5	25.0	6.1	20.0
Tetrahydrofuran	Ave	0.5811	0.5162		44.4	50.0	-11.2	20.0
Chloroform	Ave	2.392	2.465	0.2000	25.8	25.0	3.1	20.0
1,1,1-Trichloroethane	Ave	1.835	2.136	0.1000	29.1	25.0	16.4	20.0
Cyclohexane	Ave	2.155	2.155	0.1000	25.0	25.0	-0.0	20.0
Carbon tetrachloride	Ave	1.732	2.107	0.1000	30.4	25.0	21.7*	20.0
1,1-Dichloropropene	Ave	1.583	1.711		27.0	25.0	8.1	20.0
Benzene	Ave	4.461	4.371	0.5000	24.5	25.0	-2.0	20.0
Isobutyl alcohol	Ave	0.0794	0.0832		655	625	4.8	50.0
1,2-Dichloroethane	Ave	1.931	2.067	0.1000	26.8	25.0	7.0	20.0
n-Heptane	Ave	2.186	2.177		24.9	25.0	-0.4	20.0
Trichloroethene	Ave	1.277	1.352	0.2000	26.5	25.0	5.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730274/4 Calibration Date: 10/29/2024 13:26

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8406.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	1.718	1.890	0.1000	27.5	25.0	10.0	20.0
1,2-Dichloropropane	Ave	1.289	1.260	0.1000	24.4	25.0	-2.2	20.0
1,4-Dioxane	Lin1		0.0072		626	500	25.2	50.0
Dibromomethane	Ave	0.9222	0.9900	0.1000	26.8	25.0	7.4	20.0
Bromodichloromethane	Ave	1.622	1.769	0.2000	27.3	25.0	9.1	20.0
2-Chloroethyl vinyl ether	Ave	0.8145	0.8420		25.8	25.0	3.4	20.0
cis-1,3-Dichloropropene	Ave	1.814	1.889	0.2000	26.0	25.0	4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8747	0.8519	0.1000	122	125	-2.6	20.0
Toluene	Ave	1.377	1.345	0.4000	24.4	25.0	-2.3	20.0
trans-1,3-Dichloropropene	Ave	0.8100	0.8484	0.1000	26.2	25.0	4.7	20.0
Ethyl methacrylate	Ave	0.7209	0.7695		26.7	25.0	6.7	20.0
1,1,2-Trichloroethane	Ave	0.4809	0.4569	0.1000	23.8	25.0	-5.0	20.0
Tetrachloroethene	Ave	0.6654	0.7047	0.2000	26.5	25.0	5.9	20.0
1,3-Dichloropropane	Ave	0.8565	0.8360		24.4	25.0	-2.4	20.0
2-Hexanone	Ave	0.6197	0.6293	0.1000	127	125	1.6	20.0
Dibromochloromethane	Ave	0.7172	0.7745	0.1000	27.0	25.0	8.0	20.0
1,2-Dibromoethane	Ave	0.6340	0.6640		26.2	25.0	4.7	20.0
Chlorobenzene	Ave	1.620	1.610	0.5000	24.8	25.0	-0.6	20.0
Ethylbenzene	Ave	2.486	2.557	0.1000	25.7	25.0	2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6309	0.6874		27.2	25.0	9.0	20.0
m,p-Xylene	Ave	0.9647	1.004	0.1000	26.0	25.0	4.0	20.0
o-Xylene	Ave	0.9449	0.9815	0.3000	26.0	25.0	3.9	20.0
Styrene	Ave	1.571	1.641	0.3000	26.1	25.0	4.4	20.0
Bromoform	Ave	0.4928	0.5198	0.1000	26.4	25.0	5.5	50.0
Isopropylbenzene	Ave	2.011	2.078	0.1000	25.8	25.0	3.3	20.0
Bromobenzene	Ave	0.6782	0.6865		25.3	25.0	1.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7790	0.7263	0.3000	23.3	25.0	-6.8	20.0
1,2,3-Trichloropropane	Ave	0.1975	0.2030		25.7	25.0	2.8	20.0
N-Propylbenzene	Ave	2.639	2.687		25.5	25.0	1.8	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1239		13.5	25.0	-45.8	50.0
2-Chlorotoluene	Ave	0.5838	0.5878		25.2	25.0	0.7	20.0
1,3,5-Trimethylbenzene	Ave	1.884	1.946		25.8	25.0	3.3	20.0
4-Chlorotoluene	Ave	0.6042	0.6292		26.0	25.0	4.1	20.0
tert-Butylbenzene	Ave	0.3607	0.3863		26.8	25.0	7.1	20.0
1,2,4-Trimethylbenzene	Ave	1.955	2.035		26.0	25.0	4.1	20.0
sec-Butylbenzene	Ave	2.454	2.502		25.5	25.0	2.0	20.0
4-Isopropyltoluene	Ave	2.110	2.216		26.3	25.0	5.0	20.0
1,3-Dichlorobenzene	Ave	1.286	1.285	0.6000	25.0	25.0	-0.0	20.0
1,4-Dichlorobenzene	Ave	1.346	1.327	0.5000	24.6	25.0	-1.4	20.0
n-Butylbenzene	Ave	1.919	1.988		25.9	25.0	3.6	20.0
1,2-Dichlorobenzene	Ave	1.278	1.280	0.4000	25.1	25.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: CCVIS 480-730274/4 Calibration Date: 10/29/2024 13:26

Instrument ID: HP5975D Calib Start Date: 09/19/2024 16:33

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 09/20/2024 01:02

Lab File ID: D8406.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	0.1385	0.1374	0.0500	24.8	25.0	-0.8	50.0
1,2,4-Trichlorobenzene	Ave	0.9100	0.9801	0.2000	26.9	25.0	7.7	20.0
Hexachlorobutadiene	Ave	0.4706	0.5323		28.3	25.0	13.1	20.0
Naphthalene	Ave	2.165	2.305		26.6	25.0	6.5	20.0
1,2,3-Trichlorobenzene	Ave	0.8978	0.9389		26.1	25.0	4.6	20.0
Dibromofluoromethane (Surr)	Ave	1.607	1.747		27.2	25.0	8.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9116	0.9660		26.5	25.0	6.0	20.0
Toluene-d8 (Surr)	Ave	2.413	2.466		25.5	25.0	2.2	20.0

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8406.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Oct-2024 13:26:30 ALS Bottle#: 2 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0120894-004
Operator ID: AK Instrument ID: HP5975D
Sublist: chrom-D-8260*sub13

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:47:02 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:47:02

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	4.742	4.742	0.000	98	96061	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	196133	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	228630	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	94	167787	25.0	27.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	97	92791	25.0	26.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	483580	25.0	25.5	
$ 6 4-Bromofluorobenzene (Surr)	174	8.046	8.046	0.000	96	179769	25.0	27.3	
10 Dichlorodifluoromethane	85	1.115	1.115	0.000	99	227994	25.0	29.5	
12 Chloromethane	50	1.273	1.273	0.000	99	216054	25.0	25.2	
13 Vinyl chloride	62	1.346	1.346	0.000	98	144823	25.0	27.4	
144 Butadiene	54	1.365	1.365	0.000	98	152155	25.0	29.0	
14 Bromomethane	94	1.621	1.621	0.000	92	107332	25.0	26.8	
15 Chloroethane	64	1.688	1.688	0.000	95	69158	25.0	26.0	
16 Dichlorofluoromethane	67	1.889	1.889	0.000	97	246825	25.0	28.6	
17 Trichlorofluoromethane	101	1.895	1.895	0.000	98	227581	25.0	32.9	
18 Ethyl ether	59	2.145	2.145	0.000	97	89552	25.0	26.3	
20 Acrolein	56	2.304	2.304	0.000	98	55855	125.0	102.0	
22 1,1-Dichloroethene	96	2.346	2.346	0.000	95	108561	25.0	27.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.352	2.352	0.000	94	126246	25.0	28.5	
23 Acetone	43	2.450	2.450	0.000	97	295751	125.0	145.5	
25 Iodomethane	142	2.486	2.486	0.000	98	255762	25.0	26.7	
26 Carbon disulfide	76	2.523	2.523	0.000	100	373476	25.0	25.9	
28 3-Chloro-1-propene	41	2.682	2.682	0.000	88	211460	25.0	24.2	
27 Methyl acetate	43	2.724	2.724	0.000	100	253610	50.0	49.2	
30 Methylene Chloride	84	2.810	2.810	0.000	96	126018	25.0	25.7	
31 2-Methyl-2-propanol	59	2.968	2.968	0.000	98	176090	250.0	279.7	
32 Methyl tert-butyl ether	73	3.005	3.005	0.000	97	318472	25.0	25.4	
34 trans-1,2-Dichloroethene	96	3.017	3.017	0.000	95	121426	25.0	26.9	
33 Acrylonitrile	53	3.060	3.060	0.000	96	554491	250.0	241.7	
35 Hexane	57	3.200	3.200	0.000	95	180711	25.0	26.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.383	3.383	0.000	97	234657	25.0	25.6	
37 Vinyl acetate	43	3.438	3.438	0.000	97	630869	50.0	52.9	
44 2,2-Dichloropropane	77	3.834	3.834	0.000	93	151834	25.0	30.7	
45 cis-1,2-Dichloroethene	96	3.864	3.864	0.000	85	129681	25.0	25.5	
43 2-Butanone (MEK)	43	3.895	3.895	0.000	97	408062	125.0	131.6	
48 Chlorobromomethane	128	4.065	4.065	0.000	98	78413	25.0	26.5	
49 Tetrahydrofuran	42	4.078	4.078	0.000	91	99181	50.0	44.4	
50 Chloroform	83	4.126	4.126	0.000	95	236820	25.0	25.8	
51 1,1,1-Trichloroethane	97	4.224	4.224	0.000	99	205230	25.0	29.1	
52 Cyclohexane	56	4.236	4.236	0.000	97	206974	25.0	25.0	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	202387	25.0	30.4	
54 1,1-Dichloropropene	75	4.352	4.352	0.000	93	164321	25.0	27.0	
57 Benzene	78	4.523	4.523	0.000	97	419839	25.0	24.5	
53 Isobutyl alcohol	43	4.529	4.529	0.000	93	199823	625.0	654.8	
58 1,2-Dichloroethane	62	4.571	4.571	0.000	97	198538	25.0	26.8	
59 n-Heptane	43	4.669	4.669	0.000	97	209120	25.0	24.9	
62 Trichloroethene	95	5.016	5.016	0.000	96	129898	25.0	26.5	
64 Methylcyclohexane	83	5.120	5.120	0.000	97	181556	25.0	27.5	
65 1,2-Dichloropropane	63	5.212	5.212	0.000	92	121063	25.0	24.4	
67 Dibromomethane	93	5.321	5.321	0.000	95	95102	25.0	26.8	
66 1,4-Dioxane	88	5.321	5.321	0.000	42	28302	500.0	625.9	
68 Dichlorobromomethane	83	5.437	5.437	0.000	97	169939	25.0	27.3	
69 2-Chloroethyl vinyl ether	63	5.657	5.657	0.000	93	80881	25.0	25.8	
72 cis-1,3-Dichloropropene	75	5.766	5.766	0.000	92	181480	25.0	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	5.876	5.876	0.000	99	835444	125.0	121.7	
74 Toluene	92	5.998	5.998	0.000	98	263858	25.0	24.4	
77 trans-1,3-Dichloropropene	75	6.211	6.211	0.000	96	166393	25.0	26.2	
75 Ethyl methacrylate	69	6.242	6.242	0.000	96	150923	25.0	26.7	
79 1,1,2-Trichloroethane	83	6.358	6.358	0.000	93	89611	25.0	23.8	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	138210	25.0	26.5	
82 1,3-Dichloropropane	76	6.486	6.486	0.000	95	163965	25.0	24.4	
80 2-Hexanone	43	6.528	6.528	0.000	99	617175	125.0	126.9	
83 Chlorodibromomethane	129	6.669	6.669	0.000	90	151899	25.0	27.0	
84 Ethylene Dibromide	107	6.754	6.754	0.000	99	130241	25.0	26.2	
87 Chlorobenzene	112	7.120	7.120	0.000	97	315686	25.0	24.8	
88 Ethylbenzene	91	7.181	7.181	0.000	99	501601	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	7.187	7.187	0.000	96	134814	25.0	27.2	
90 m-Xylene & p-Xylene	106	7.272	7.272	0.000	99	196876	25.0	26.0	
91 o-Xylene	106	7.601	7.601	0.000	97	192510	25.0	26.0	
92 Styrene	104	7.620	7.620	0.000	93	321820	25.0	26.1	
95 Bromoform	173	7.815	7.815	0.000	96	101945	25.0	26.4	
94 Isopropylbenzene	105	7.888	7.888	0.000	96	475025	25.0	25.8	
101 Bromobenzene	156	8.174	8.174	0.000	89	156952	25.0	25.3	
97 1,1,2,2-Tetrachloroethane	83	8.199	8.199	0.000	96	166046	25.0	23.3	
99 N-Propylbenzene	91	8.229	8.229	0.000	99	614288	25.0	25.5	
100 1,2,3-Trichloropropane	110	8.229	8.229	0.000	85	46406	25.0	25.7	
98 trans-1,4-Dichloro-2-butene	53	8.235	8.235	0.000	82	28330	25.0	13.5	
103 2-Chlorotoluene	126	8.321	8.321	0.000	97	134381	25.0	25.2	
102 1,3,5-Trimethylbenzene	105	8.369	8.369	0.000	94	444858	25.0	25.8	
105 4-Chlorotoluene	126	8.412	8.412	0.000	96	143855	25.0	26.0	
106 tert-Butylbenzene	134	8.638	8.638	0.000	94	88331	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	8.686	8.686	0.000	97	465315	25.0	26.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.821	8.821	0.000	95	572100	25.0	25.5	
110 4-Isopropyltoluene	119	8.936	8.936	0.000	97	506698	25.0	26.3	
111 1,3-Dichlorobenzene	146	8.943	8.943	0.000	98	293880	25.0	25.0	
113 1,4-Dichlorobenzene	146	9.022	9.022	0.000	96	303365	25.0	24.6	
115 n-Butylbenzene	91	9.284	9.284	0.000	98	454611	25.0	25.9	
116 1,2-Dichlorobenzene	146	9.339	9.339	0.000	99	292715	25.0	25.1	
117 1,2-Dibromo-3-Chloropropane	75	10.015	10.015	0.000	87	31423	25.0	24.8	
119 1,2,4-Trichlorobenzene	180	10.680	10.680	0.000	94	224089	25.0	26.9	
120 Hexachlorobutadiene	225	10.790	10.790	0.000	96	121701	25.0	28.3	
121 Naphthalene	128	10.893	10.893	0.000	97	527058	25.0	26.6	
122 1,2,3-Trichlorobenzene	180	11.088	11.088	0.000	96	214651	25.0	26.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

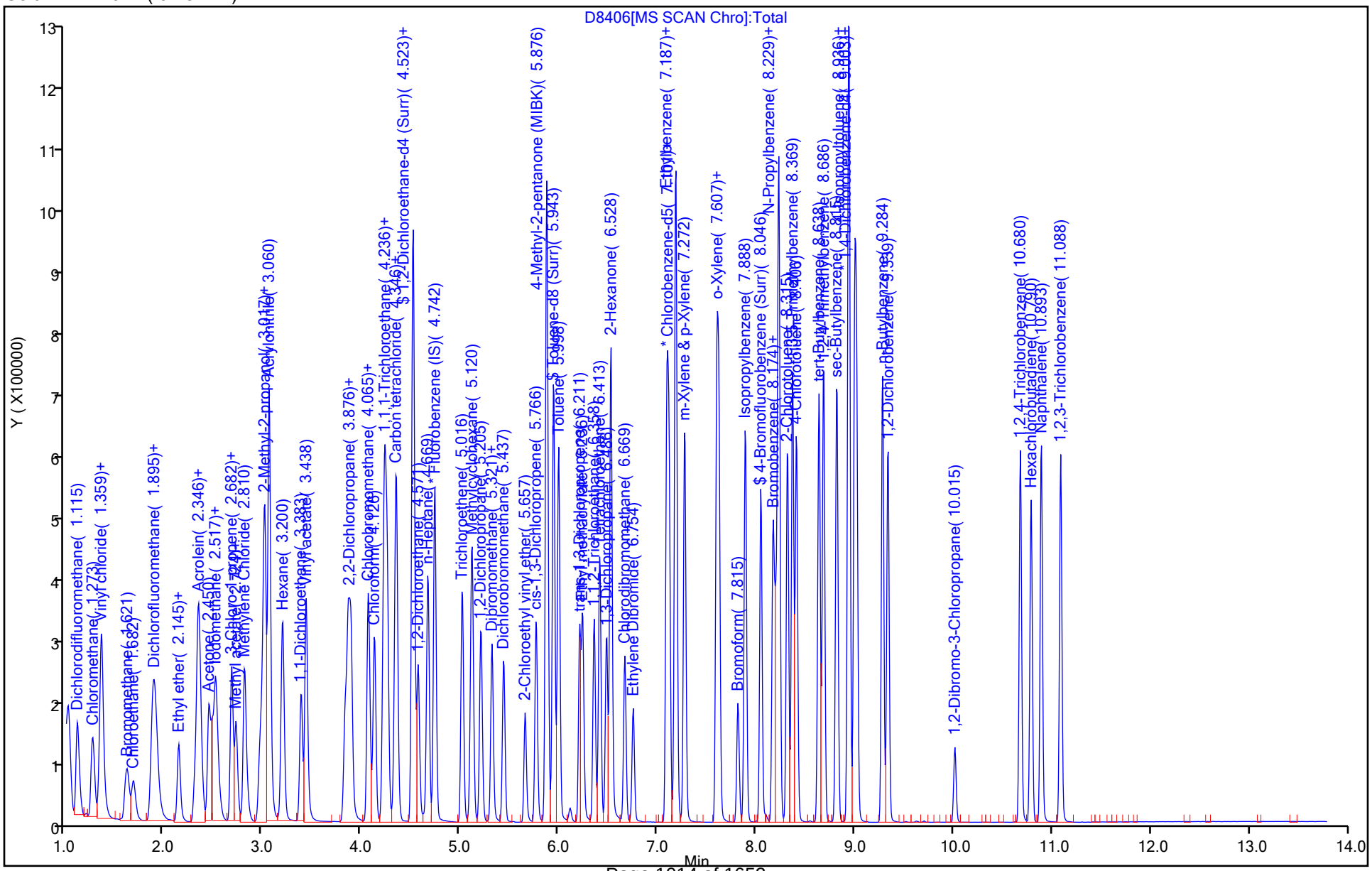
Report Date: 29-Oct-2024 13:47:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8406.d

Injection Date:	29-Oct-2024 13:26:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 20-Sep-2024 12:00:29 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6832.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 19-Sep-2024 14:41:30 ALS Bottle#: 20 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120124-011
Operator ID: LH Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Sep-2024 12:00:28 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1628

First Level Reviewer: WLL8 Date: 19-Sep-2024 14:50:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.879	3.879	0.000	0	144666	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

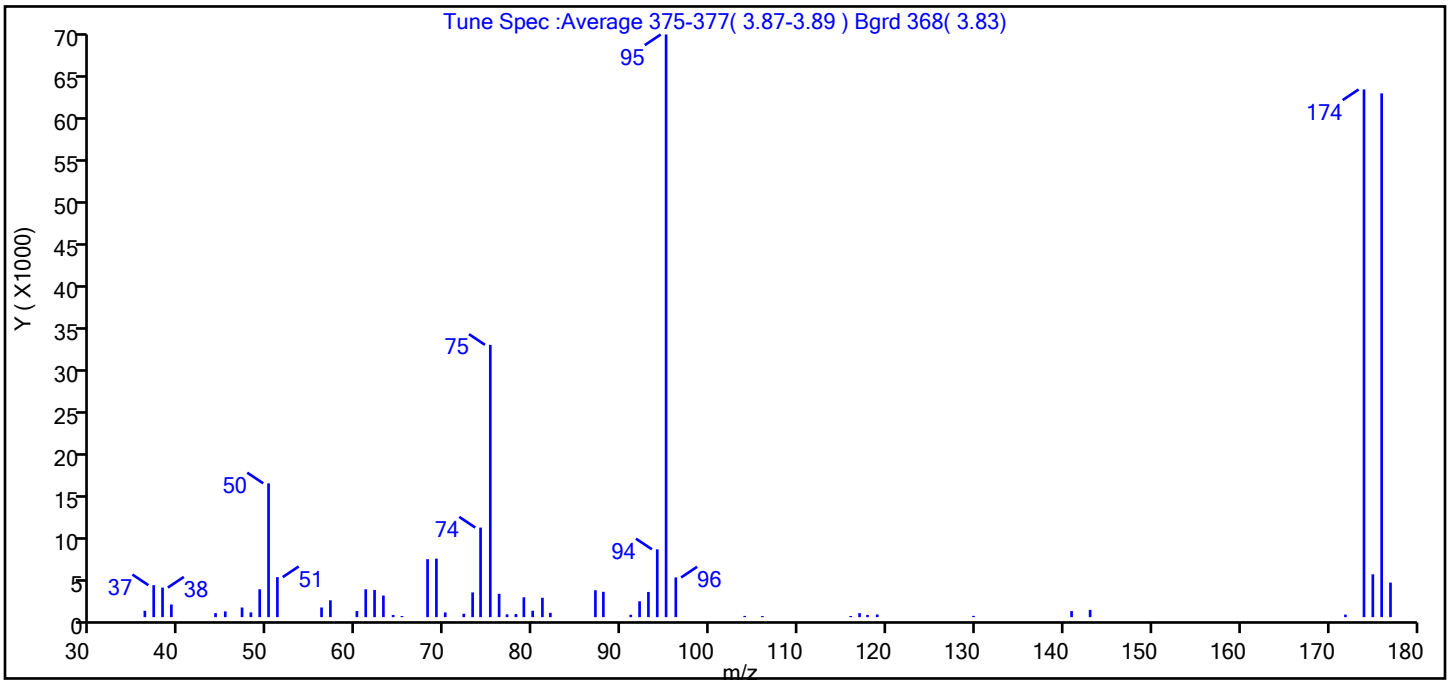
BFB_WRK_00165 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6832.d
Injection Date: 19-Sep-2024 14:41:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 20 Worklist Smp#: 11
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.0
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	90.6
175	5 to 9% of m/z 174	7.3 (8.1)
176	Greater than 95% but less than 101% of m/z 174	89.9 (99.3)
177	5 to 9% of m/z 176	5.9 (6.6)

Report Date: 20-Sep-2024 12:00:29 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6832.d\D-8260.rslt\spectra.d
Injection Date: 19-Sep-2024 14:41:30
Spectrum: Tune Spec :Average 375-377(3.87-3.89) Bgrd 368(3.83)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	765	61.00	3345	78.00	370	106.00	130
37.00	3839	62.00	3262	79.00	2386	116.00	137
38.00	3550	63.00	2594	80.00	769	117.00	483
39.00	1519	64.00	263	81.00	2327	118.00	269
44.00	484	65.00	131	82.00	517	119.00	321
45.00	695	68.00	6963	87.00	3231	130.00	154
47.00	1155	69.00	7032	88.00	3043	141.00	726
48.00	569	70.00	564	91.00	288	143.00	874
49.00	3345	72.00	411	92.00	1907	172.00	302
50.00	16068	73.00	2965	93.00	3026	174.00	63376
51.00	4806	74.00	10759	94.00	8145	175.00	5142
56.00	1160	75.00	32704	95.00	69976	176.00	62904
57.00	2021	76.00	2804	96.00	4768	177.00	4150
60.00	733	77.00	340	104.00	149		

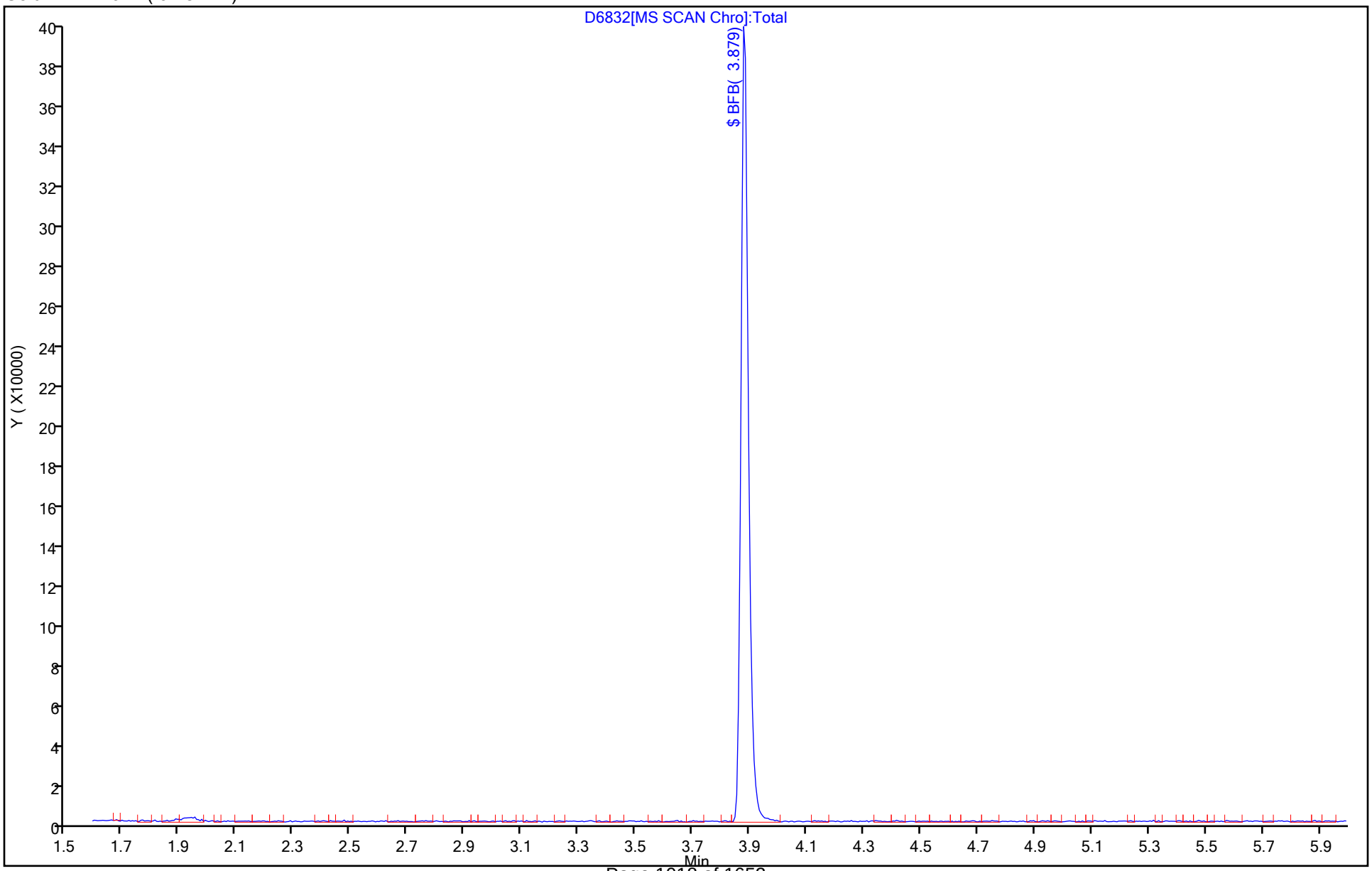
Report Date: 20-Sep-2024 12:00:29 Chrom Revision: 2.3 26-Aug-2024 17:14:48

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6832.d

Injection Date:	19-Sep-2024 14:41:30	Instrument ID:	HP5975D	Operator ID:	LH
Lims ID:	BFB			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 28-Oct-2024 11:38:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8336.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Oct-2024 11:31:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120860-003
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 11:38:07 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1605

First Level Reviewer: R3QB Date: 28-Oct-2024 11:38:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.836	3.836	0.000	0	61279	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

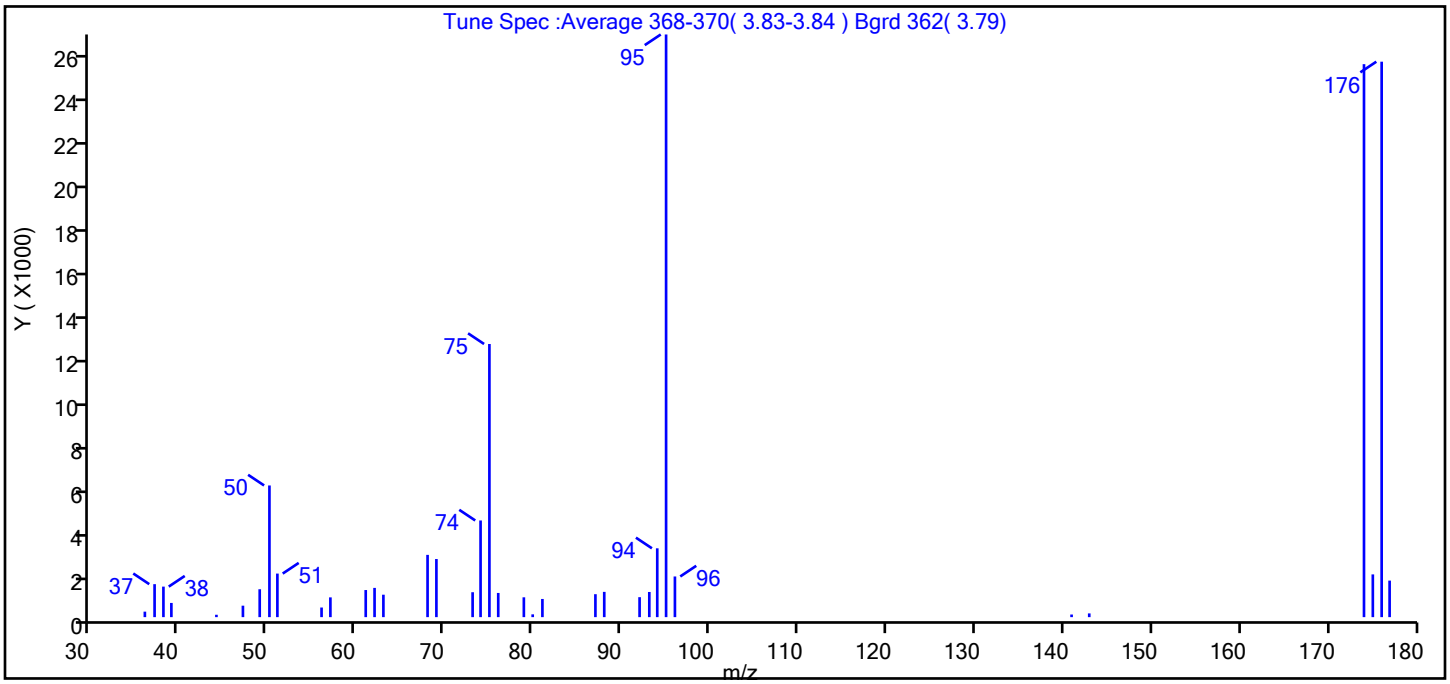
BFB_WRK_00166 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8336.d
Injection Date: 28-Oct-2024 11:31:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.6
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.9
175	5 to 9% of m/z 174	7.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	95.3 (100.4)
177	5 to 9% of m/z 176	6.3 (6.6)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8336.d\D-8260.rslt\spectra.d
Injection Date: 28-Oct-2024 11:31:30
Spectrum: Tune Spec :Average 368-370(3.83-3.84) Bgrd 362(3.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	249	56.00	436	75.00	12365	94.00	3116
37.00	1493	57.00	895	76.00	1095	95.00	26376
38.00	1382	61.00	1227	79.00	898	96.00	1841
39.00	643	62.00	1324	80.00	127	141.00	119
44.00	108	63.00	1016	81.00	823	143.00	169
47.00	519	68.00	2819	87.00	1039	174.00	25032
49.00	1263	69.00	2631	88.00	1144	175.00	1935
50.00	5961	73.00	1128	92.00	904	176.00	25144
51.00	1972	74.00	4376	93.00	1139	177.00	1654

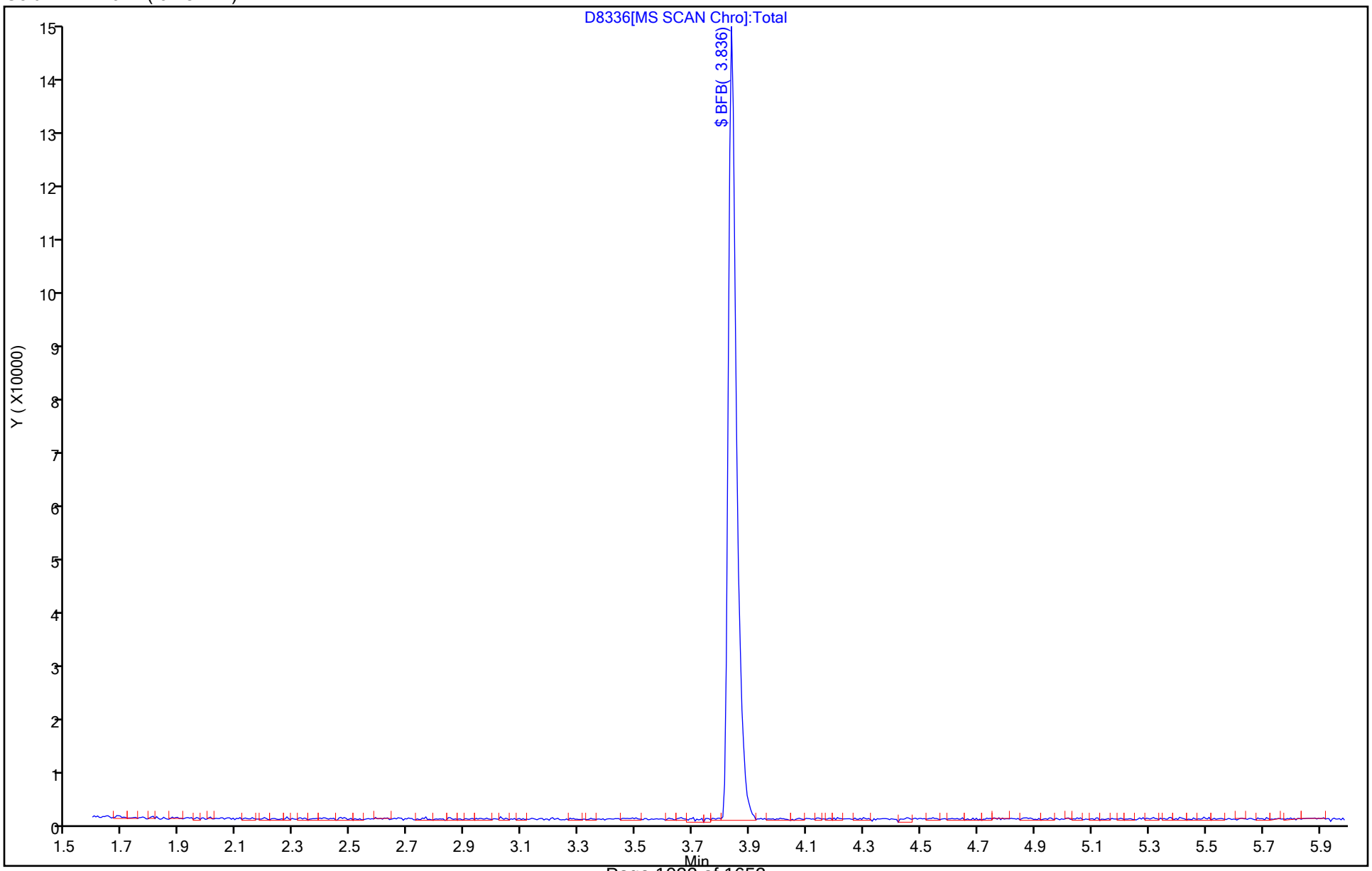
Report Date: 28-Oct-2024 11:38:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8336.d

Injection Date:	28-Oct-2024 11:31:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8371.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Oct-2024 00:28:30 ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120866-003
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:18:33 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:18:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.891	3.891	0.000	0	341771	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

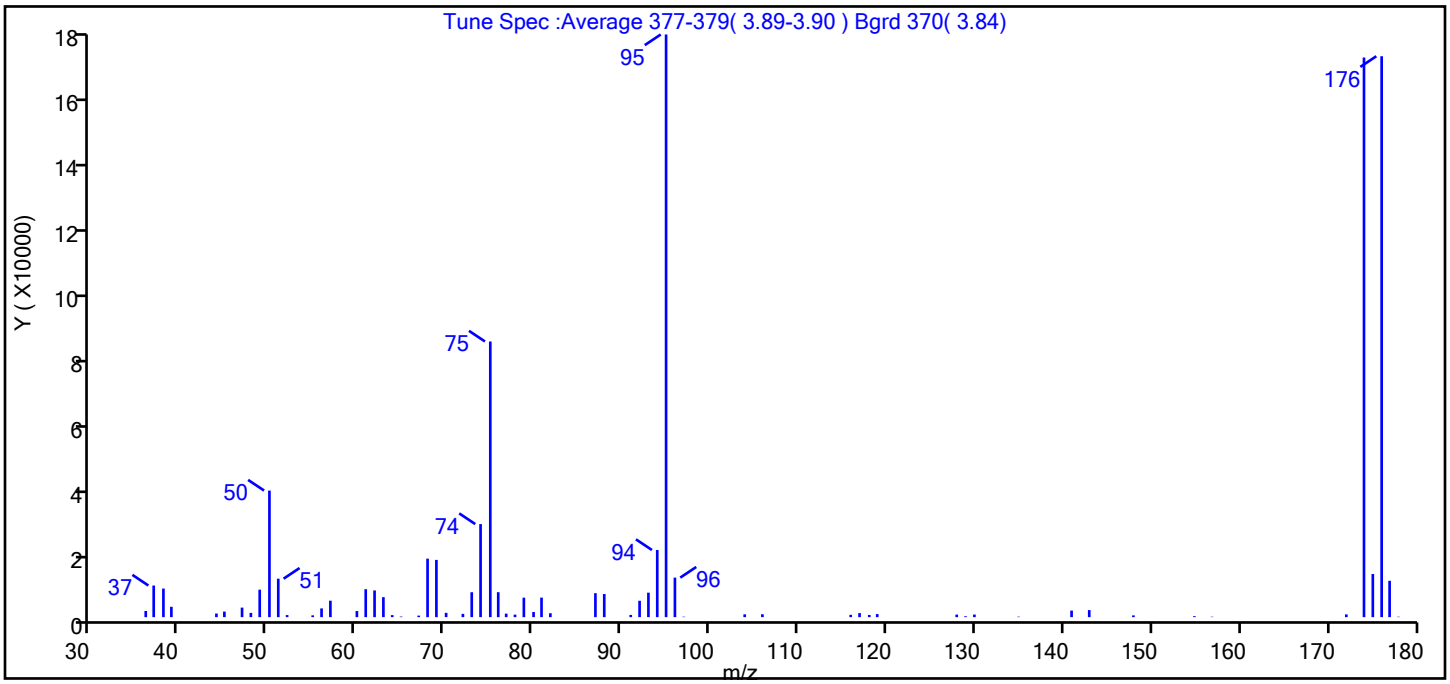
BFB_WRK_00166 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8371.d
Injection Date: 29-Oct-2024 00:28:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 36 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.7
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.0
175	5 to 9% of m/z 174	7.4 (7.7)
176	Greater than 95% but less than 101% of m/z 174	96.3 (100.2)
177	5 to 9% of m/z 176	6.2 (6.5)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8371.d\D-8260.rslt\spectra.d
Injection Date: 29-Oct-2024 00:28:30
Spectrum: Tune Spec :Average 377-379(3.89-3.90) Bgrd 370(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1845	62.00	8015	81.00	5860	128.00	764
37.00	9488	63.00	5998	82.00	1172	129.00	263
38.00	8575	64.00	610	87.00	7192	130.00	782
39.00	3104	65.00	173	88.00	6939	135.00	138
44.00	1086	67.00	461	91.00	670	141.00	1975
45.00	1673	68.00	17552	92.00	4914	143.00	2122
47.00	2861	69.00	17176	93.00	7343	148.00	527
48.00	1279	70.00	1295	94.00	20152	155.00	285
49.00	8246	72.00	985	95.00	174848	157.00	122
50.00	37984	73.00	7477	96.00	11856	172.00	822
51.00	11539	74.00	27928	97.00	130	174.00	167936
52.00	620	75.00	82720	104.00	843	175.00	12947
55.00	540	76.00	7485	106.00	870	176.00	168320
56.00	2617	77.00	1049	116.00	697	177.00	10908
57.00	4939	78.00	761	117.00	1215	178.00	125
60.00	1830	79.00	5840	118.00	652		
61.00	8386	80.00	1543	119.00	929		

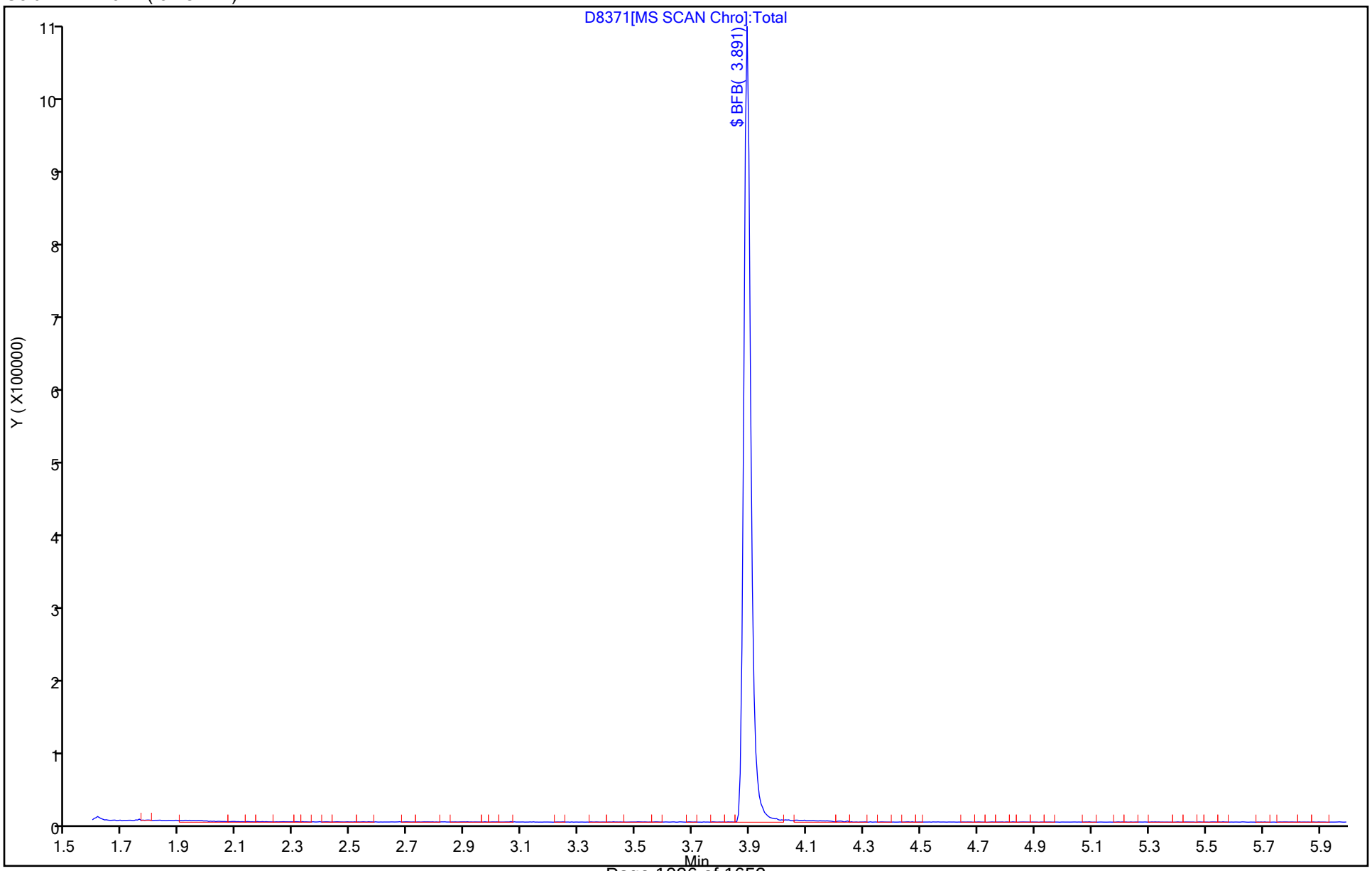
Report Date: 29-Oct-2024 13:18:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8371.d

Injection Date:	29-Oct-2024 00:28:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	36
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 29-Oct-2024 13:12:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8405.d
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 29-Oct-2024 12:57:30 ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0120894-003
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:12:56 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:12:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.842	3.842	0.000	0	85420	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

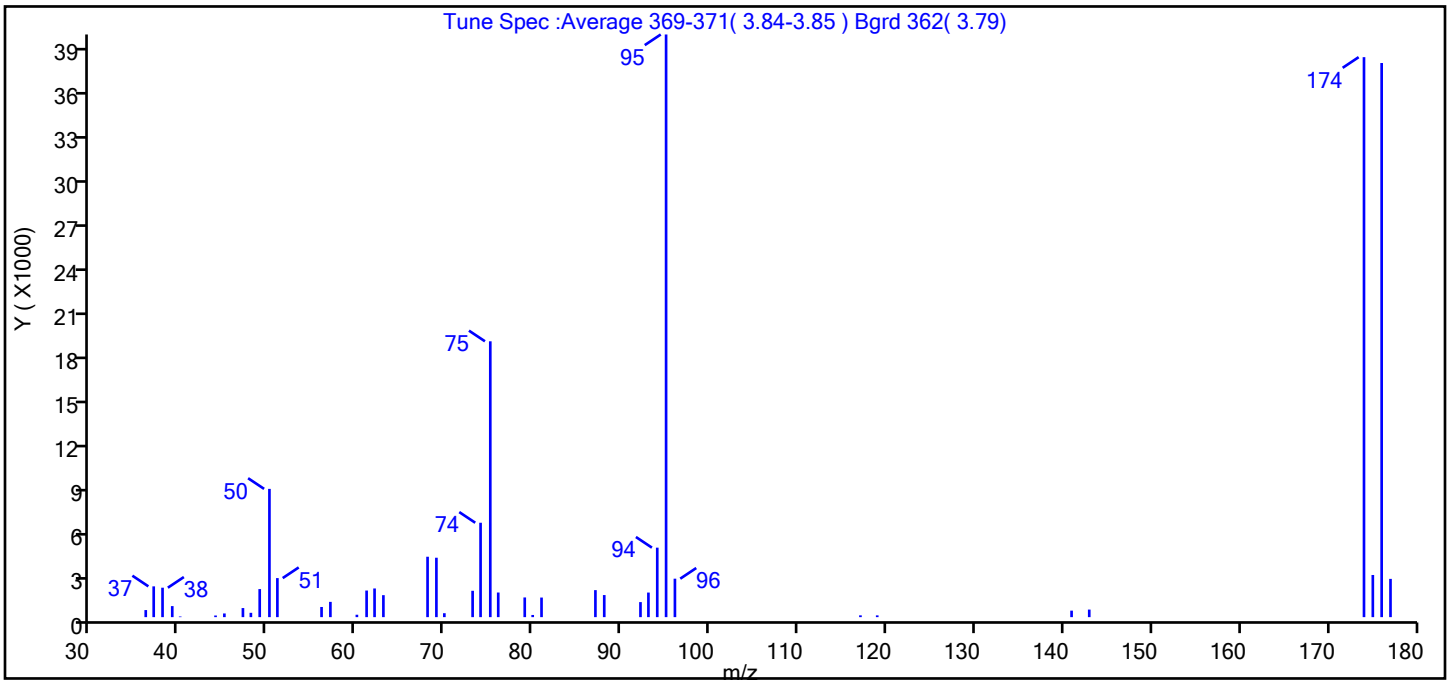
BFB_WRK_00166 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8405.d
Injection Date: 29-Oct-2024 12:57:30 Instrument ID: HP5975D
Lims ID: BFB
Client ID:
Operator ID: AK ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.1
175	5 to 9% of m/z 174	7.2 (7.5)
176	Greater than 95% but less than 101% of m/z 174	95.1 (99.0)
177	5 to 9% of m/z 176	6.6 (6.9)

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8405.d\D-8260.rslt\spectra.d
Injection Date: 29-Oct-2024 12:57:30
Spectrum: Tune Spec :Average 369-371(3.84-3.85) Bgrd 362(3.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	51.00	2672	74.00	6459	95.00	39864
37.00	2106	56.00	695	75.00	18872	96.00	2631
38.00	2014	57.00	1045	76.00	1685	117.00	123
39.00	755	60.00	165	79.00	1347	119.00	121
40.00	43	61.00	1820	80.00	149	141.00	445
44.00	112	62.00	1962	81.00	1341	143.00	517
45.00	252	63.00	1504	87.00	1848	174.00	38312
47.00	621	68.00	4133	88.00	1511	175.00	2884
48.00	296	69.00	4065	92.00	1029	176.00	37912
49.00	1920	70.00	269	93.00	1682	177.00	2618
50.00	8775	73.00	1803	94.00	4754		

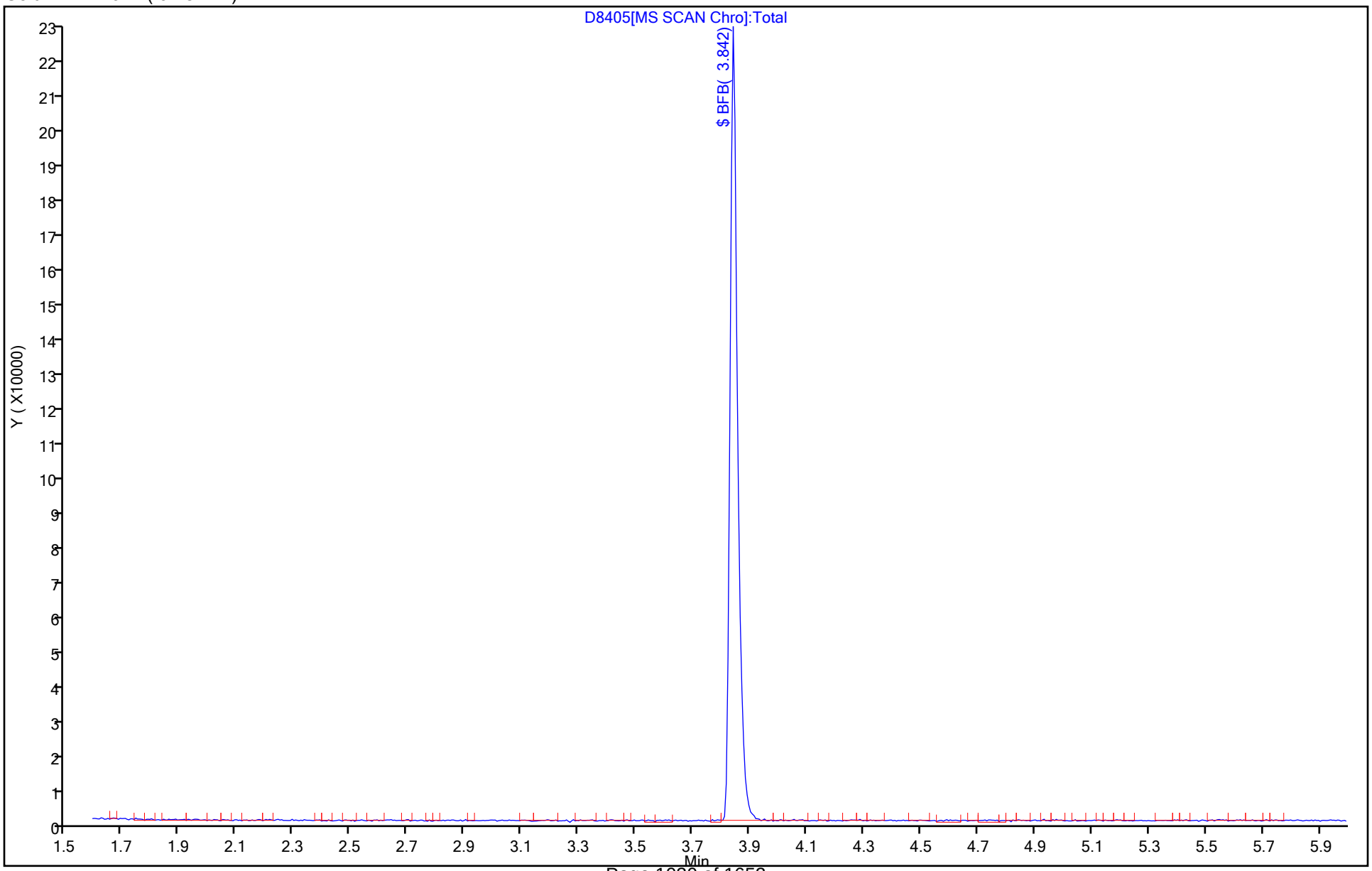
Report Date: 29-Oct-2024 13:12:56 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8405.d

Injection Date:	29-Oct-2024 12:57:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	D-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.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730076/8

Matrix: Water | Lab File ID: D8341.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 13:22

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8341.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Oct-2024 13:22:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120860-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:17:41 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:17:41

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	4.730	4.730	0.000	98	105870	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.083	7.083	0.000	87	230491	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	254666	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.248	0.006	92	184165	25.0	27.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.504	4.504	0.000	99	102921	25.0	26.7	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	536652	25.0	24.1	
$ 6 4-Bromofluorobenzene (Surr)	174	8.040	8.040	0.000	96	198865	25.0	25.7	
10 Dichlorodifluoromethane	85		1.115					ND	
11 Chlorodifluoromethane	51		1.139					ND	
12 Chloromethane	50		1.267					ND	
13 Vinyl chloride	62		1.340					ND	
144 Butadiene	54		1.359					ND	
14 Bromomethane	94		1.615					ND	
15 Chloroethane	64		1.676					ND	
16 Dichlorofluoromethane	67		1.883					ND	
17 Trichlorofluoromethane	101		1.883					ND	
18 Ethyl ether	59		2.133					ND	
141 Ethanol	45		2.164					ND	
19 Propene oxide	58		2.231					ND	
20 Acrolein	56		2.298					ND	
22 1,1-Dichloroethene	96		2.334					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.334					ND	
23 Acetone	43		2.444					ND	
25 Iodomethane	142		2.480					ND	
26 Carbon disulfide	76		2.511					ND	
24 Isopropyl alcohol	45		2.633					ND	
28 3-Chloro-1-propene	41		2.676					ND	
27 Methyl acetate	43		2.718					ND	
29 Acetonitrile	40		2.737					ND	
30 Methylene Chloride	84		2.804					ND	
31 2-Methyl-2-propanol	59		2.962					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		2.999					ND	
34 trans-1,2-Dichloroethene	96		3.011					ND	
33 Acrylonitrile	53		3.054					ND	
35 Hexane	57		3.188					ND	
39 1,1-Dichloroethane	63		3.377					ND	
36 Isopropyl ether	45		3.413					ND	
37 Vinyl acetate	43		3.425					ND	
132 Halothane	117		3.432					ND	
40 2-Chloro-1,3-butadiene	53		3.450					ND	
38 1,1-Dimethoxyethane	75		3.474					ND	
41 Tert-butyl ethyl ether	59		3.706					ND	
44 2,2-Dichloropropane	77		3.828					ND	
45 cis-1,2-Dichloroethene	96		3.858					ND	
43 2-Butanone (MEK)	43		3.883					ND	
42 Ethyl acetate	43		3.932					ND	
46 Propionitrile	54		3.980					ND	
48 Chlorobromomethane	128		4.053					ND	
49 Tetrahydrofuran	42		4.072					ND	
47 Methacrylonitrile	41		4.078					ND	
50 Chloroform	83	4.126	4.120	0.006	84	1746		0.1724	
51 1,1,1-Trichloroethane	97		4.218					ND	
52 Cyclohexane	56		4.224					ND	
55 Carbon tetrachloride	117		4.334					ND	
54 1,1-Dichloropropene	75		4.346					ND	
57 Benzene	78		4.511					ND	
53 Isobutyl alcohol	43		4.523					ND	
146 Isooctane	57		4.529					ND	
58 1,2-Dichloroethane	62		4.565					ND	
140 t-Amyl alcohol	59		4.584					ND	
56 Tert-amyl methyl ether	73		4.590					ND	
59 n-Heptane	43		4.663					ND	
1 1,4-Difluorobenzene	114		4.840					ND	
154 2,4,4-Trimethyl-1-pentene	55		4.931					ND	
62 Trichloroethene	95		5.010					ND	
60 n-Butanol	56		5.041					ND	
64 Methylcyclohexane	83		5.108					ND	
145 Ethyl acrylate	55		5.120					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.126					ND	
65 1,2-Dichloropropane	63		5.199					ND	
63 Methyl methacrylate	41		5.291					ND	
67 Dibromomethane	93		5.309					ND	
66 1,4-Dioxane	88		5.315					ND	
68 Dichlorobromomethane	83		5.431					ND	
70 2-Nitropropane	43		5.639					ND	
69 2-Chloroethyl vinyl ether	63		5.651					ND	
71 Epichlorohydrin	57		5.736					ND	
72 cis-1,3-Dichloropropene	75		5.760					ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.870					ND	
74 Toluene	92		5.986					ND	
76 2-Methylthiophene	97		6.114					ND	
77 trans-1,3-Dichloropropene	75		6.199					ND	
75 Ethyl methacrylate	69		6.230					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.242					ND	
79 1,1,2-Trichloroethane	83		6.346					ND	
81 Tetrachloroethene	166		6.407					ND	
82 1,3-Dichloropropane	76		6.474					ND	
80 2-Hexanone	43		6.516					ND	
155 n-Butyl acetate	43		6.614					ND	
83 Chlorodibromomethane	129		6.656					ND	
84 Ethylene Dibromide	107		6.742					ND	
139 1-Chlorohexane	55		7.077					ND	U
85 3-Chlorobenzotrifluoride	180		7.089					ND	
87 Chlorobenzene	112		7.108					ND	
86 4-Chlorobenzotrifluoride	180		7.132					ND	
88 Ethylbenzene	91		7.175					ND	
89 1,1,1,2-Tetrachloroethane	131		7.181					ND	
90 m-Xylene & p-Xylene	106		7.266					ND	
91 o-Xylene	106		7.589					ND	
92 Styrene	104		7.614					ND	
95 Bromoform	173		7.809					ND	
93 2-Chlorobenzotrifluoride	180		7.833					ND	
94 Isopropylbenzene	105		7.882					ND	
96 Cyclohexanone	55		8.034					ND	
101 Bromobenzene	156		8.162					ND	
97 1,1,2,2-Tetrachloroethane	83		8.187					ND	
99 N-Propylbenzene	91		8.217					ND	
100 1,2,3-Trichloropropane	110		8.223					ND	
98 trans-1,4-Dichloro-2-butene	53		8.229					ND	
103 2-Chlorotoluene	126		8.309					ND	
102 1,3,5-Trimethylbenzene	105		8.363					ND	
104 3-Chlorotoluene	126		8.376					ND	
105 4-Chlorotoluene	126		8.400					ND	
106 tert-Butylbenzene	134		8.632					ND	
107 1,2,4-Trimethylbenzene	105		8.674					ND	
108 Pentachloroethane	167		8.699					ND	
109 sec-Butylbenzene	105		8.808					ND	
110 4-Isopropyltoluene	119		8.930					ND	
111 1,3-Dichlorobenzene	146		8.937					ND	
113 1,4-Dichlorobenzene	146		9.010					ND	
114 Dicyclopentadiene	66		9.010					ND	
112 1,2,3-Trimethylbenzene	105		9.046					ND	
143 Benzyl chloride	91		9.150					ND	
115 n-Butylbenzene	91		9.272					ND	7
116 1,2-Dichlorobenzene	146		9.327					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.003					ND	
118 1,3,5-Trichlorobenzene	180		10.150					ND	
119 1,2,4-Trichlorobenzene	180		10.674					ND	
120 Hexachlorobutadiene	225		10.778					ND	
121 Naphthalene	128		10.881					ND	
122 1,2,3-Trichlorobenzene	180		11.082					ND	
142 2-Methylnaphthalene	142		11.778					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

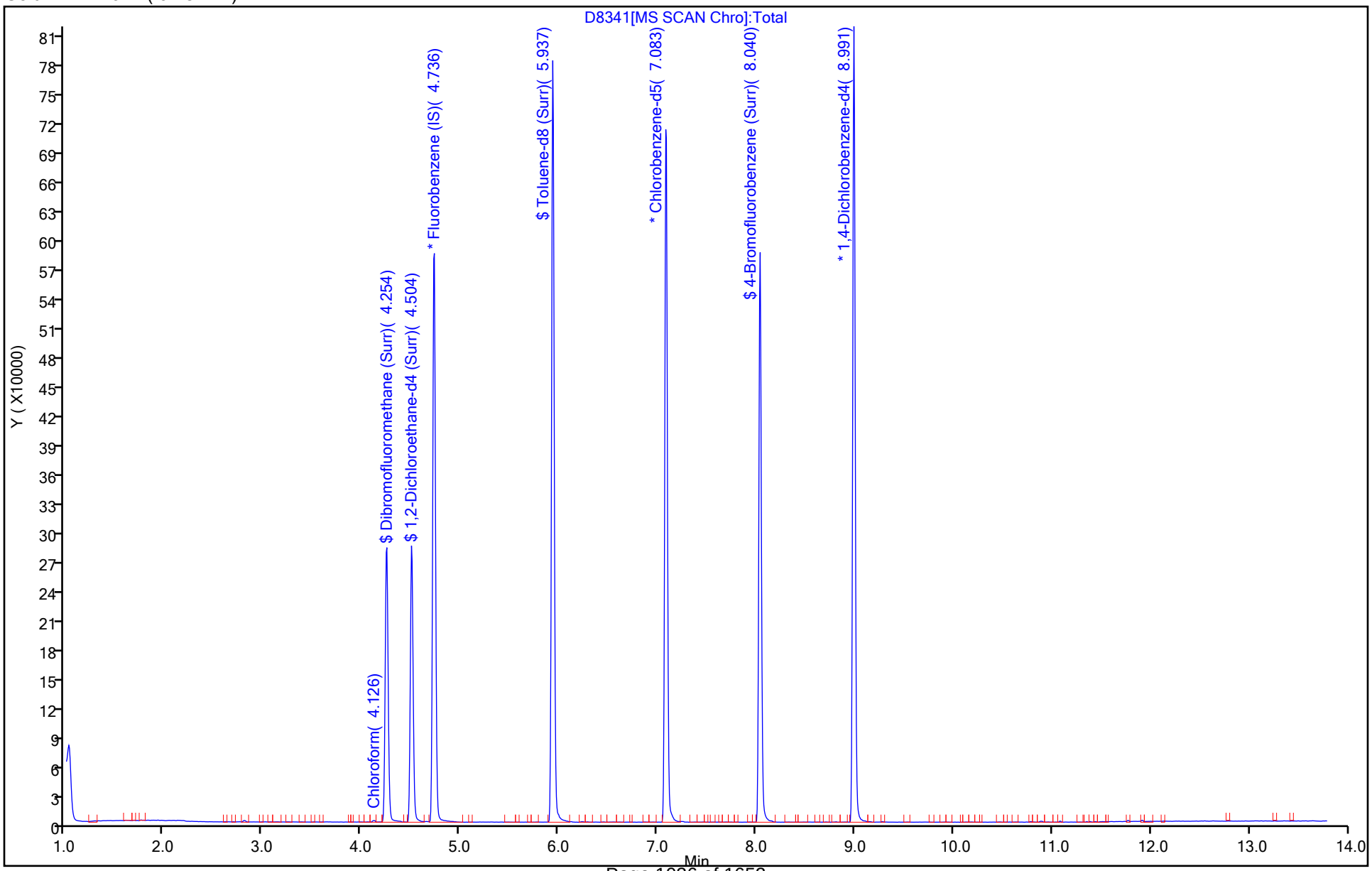
Report Date: 28-Oct-2024 16:17:42 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8341.d

Injection Date:	28-Oct-2024 13:22:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8341.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Oct-2024 13:22:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120860-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:17:41 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:17:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.1	108.22
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.7	106.65
$ 5 Toluene-d8 (Surr)	25.0	24.1	96.51
$ 6 4-Bromofluorobenzene (Surr)	25.0	25.7	102.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730119/8

Matrix: Water | Lab File ID: D8376.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 02:19

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8376.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 02:19:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120866-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:13 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:04:13

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	4.736	4.736	0.000	98	98309	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	86	206912	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	247321	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	92	176787	25.0	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	99531	25.0	27.8	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	505701	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr)	174	8.046	8.046	0.000	96	185686	25.0	26.8	
10 Dichlorodifluoromethane	85		1.121					ND	
11 Chlorodifluoromethane	51		1.139					ND	
12 Chloromethane	50		1.273					ND	
13 Vinyl chloride	62		1.346					ND	
144 Butadiene	54		1.365					ND	
14 Bromomethane	94		1.621					ND	
15 Chloroethane	64		1.688					ND	
16 Dichlorofluoromethane	67		1.895					ND	
17 Trichlorofluoromethane	101		1.895					ND	
18 Ethyl ether	59		2.145					ND	
141 Ethanol	45		2.164					ND	
19 Propene oxide	58		2.231					ND	
20 Acrolein	56		2.304					ND	
22 1,1-Dichloroethene	96		2.340					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.346					ND	
23 Acetone	43		2.450					ND	
25 Iodomethane	142		2.486					ND	
26 Carbon disulfide	76		2.523					ND	
24 Isopropyl alcohol	45		2.633					ND	
28 3-Chloro-1-propene	41		2.682					ND	
27 Methyl acetate	43		2.724					ND	
29 Acetonitrile	40		2.737					ND	
30 Methylene Chloride	84		2.810					ND	7
31 2-Methyl-2-propanol	59		2.968					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		3.005					ND	
34 trans-1,2-Dichloroethene	96		3.017					ND	
33 Acrylonitrile	53		3.060					ND	
35 Hexane	57		3.194					ND	
39 1,1-Dichloroethane	63		3.383					ND	
36 Isopropyl ether	45		3.413					ND	
37 Vinyl acetate	43		3.431					ND	
132 Halothane	117		3.432					ND	
40 2-Chloro-1,3-butadiene	53		3.450					ND	
38 1,1-Dimethoxyethane	75		3.474					ND	
41 Tert-butyl ethyl ether	59		3.706					ND	
44 2,2-Dichloropropane	77		3.834					ND	
45 cis-1,2-Dichloroethene	96		3.864					ND	
43 2-Butanone (MEK)	43		3.889					ND	
42 Ethyl acetate	43		3.932					ND	
46 Propionitrile	54		3.980					ND	
48 Chlorobromomethane	128		4.059					ND	
49 Tetrahydrofuran	42		4.078					ND	
47 Methacrylonitrile	41		4.078					ND	
50 Chloroform	83	4.126	4.126	0.000	89	2124		0.2258	
51 1,1,1-Trichloroethane	97		4.224					ND	
52 Cyclohexane	56		4.230					ND	
55 Carbon tetrachloride	117		4.340					ND	
54 1,1-Dichloropropene	75		4.352					ND	
57 Benzene	78		4.517					ND	
53 Isobutyl alcohol	43		4.523					ND	
146 Isooctane	57		4.529					ND	
58 1,2-Dichloroethane	62		4.571					ND	
140 t-Amyl alcohol	59		4.584					ND	
56 Tert-amyl methyl ether	73		4.590					ND	
59 n-Heptane	43		4.669					ND	
1 1,4-Difluorobenzene	114		4.840					ND	
154 2,4,4-Trimethyl-1-pentene	55		4.931					ND	
62 Trichloroethene	95		5.016					ND	
60 n-Butanol	56		5.041					ND	
64 Methylcyclohexane	83		5.114					ND	
145 Ethyl acrylate	55		5.120					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.126					ND	
65 1,2-Dichloropropane	63		5.205					ND	
63 Methyl methacrylate	41		5.291					ND	
67 Dibromomethane	93		5.315					ND	
66 1,4-Dioxane	88		5.321					ND	
68 Dichlorobromomethane	83		5.437					ND	
70 2-Nitropropane	43		5.639					ND	
69 2-Chloroethyl vinyl ether	63		5.651					ND	
71 Epichlorohydrin	57		5.736					ND	
72 cis-1,3-Dichloropropene	75		5.766					ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.870					ND	
74 Toluene	92		5.992					ND	
76 2-Methylthiophene	97		6.114					ND	
77 trans-1,3-Dichloropropene	75		6.205					ND	
75 Ethyl methacrylate	69		6.236					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.242					ND	
79 1,1,2-Trichloroethane	83		6.352					ND	
81 Tetrachloroethene	166		6.413					ND	
82 1,3-Dichloropropane	76		6.480					ND	
80 2-Hexanone	43		6.522					ND	
155 n-Butyl acetate	43		6.614					ND	
83 Chlorodibromomethane	129		6.663					ND	
84 Ethylene Dibromide	107		6.748					ND	
139 1-Chlorohexane	55		7.077					ND	U
85 3-Chlorobenzotrifluoride	180		7.089					ND	
87 Chlorobenzene	112		7.114					ND	
86 4-Chlorobenzotrifluoride	180		7.132					ND	
88 Ethylbenzene	91		7.181					ND	
89 1,1,1,2-Tetrachloroethane	131		7.181					ND	
90 m-Xylene & p-Xylene	106		7.272					ND	
91 o-Xylene	106		7.595					ND	
92 Styrene	104		7.620					ND	
95 Bromoform	173		7.809					ND	
93 2-Chlorobenzotrifluoride	180		7.833					ND	
94 Isopropylbenzene	105		7.888					ND	
96 Cyclohexanone	55		8.034					ND	
101 Bromobenzene	156		8.168					ND	
97 1,1,2,2-Tetrachloroethane	83		8.193					ND	
99 N-Propylbenzene	91		8.223					ND	
100 1,2,3-Trichloropropane	110		8.223					ND	
98 trans-1,4-Dichloro-2-butene	53		8.229					ND	
103 2-Chlorotoluene	126		8.315					ND	
102 1,3,5-Trimethylbenzene	105		8.363					ND	
104 3-Chlorotoluene	126		8.376					ND	
105 4-Chlorotoluene	126		8.406					ND	
106 tert-Butylbenzene	134		8.632					ND	
107 1,2,4-Trimethylbenzene	105		8.680					ND	
108 Pentachloroethane	167		8.699					ND	
109 sec-Butylbenzene	105		8.815					ND	
110 4-Isopropyltoluene	119		8.930					ND	
111 1,3-Dichlorobenzene	146		8.936					ND	
114 Dicyclopentadiene	66		9.010					ND	
113 1,4-Dichlorobenzene	146		9.016					ND	
112 1,2,3-Trimethylbenzene	105		9.046					ND	
143 Benzyl chloride	91		9.150					ND	
115 n-Butylbenzene	91		9.278					ND	
116 1,2-Dichlorobenzene	146		9.333					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.009					ND	
118 1,3,5-Trichlorobenzene	180		10.150					ND	
119 1,2,4-Trichlorobenzene	180		10.674					ND	
120 Hexachlorobutadiene	225		10.784					ND	
121 Naphthalene	128		10.887					ND	
122 1,2,3-Trichlorobenzene	180		11.082					ND	
142 2-Methylnaphthalene	142		11.778					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

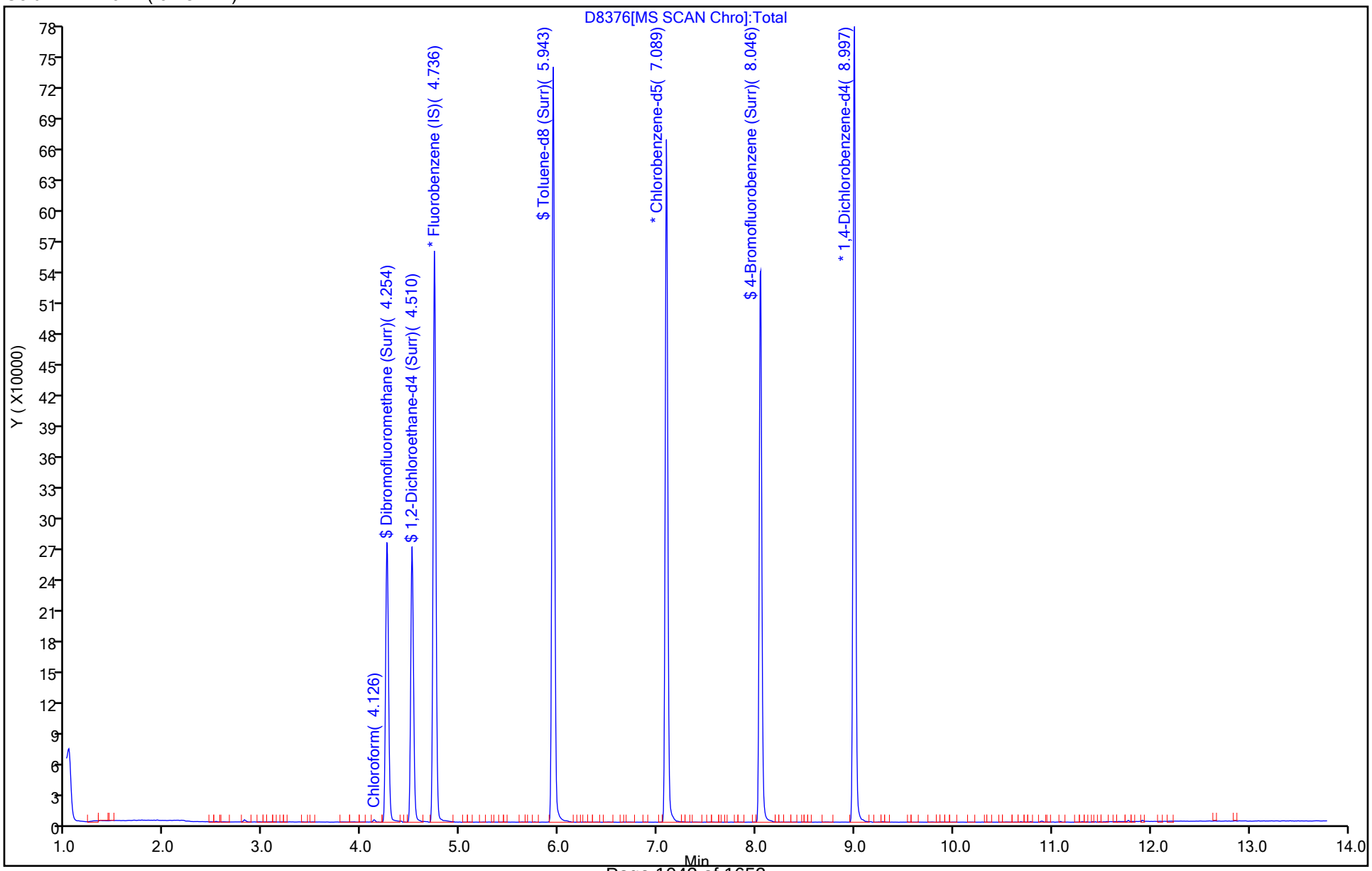
Report Date: 29-Oct-2024 14:04:14 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8376.d

Injection Date:	29-Oct-2024 02:19:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	41
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8376.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 02:19:30 ALS Bottle#: 41 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120866-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:04:13 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:04:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	111.88
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.8	111.07
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.30
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.8	107.08

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730274/8

Matrix: Water | Lab File ID: D8410.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 14:55

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.41	U	1.0	0.41
75-15-0	Carbon disulfide	0.19	U	1.0	0.19
56-23-5	Carbon tetrachloride	0.27	U	1.0	0.27
108-90-7	Chlorobenzene	0.75	U	1.0	0.75
67-66-3	Chloroform	0.34	U	1.0	0.34
75-09-2	Methylene Chloride	0.44	U	1.0	0.44
127-18-4	Tetrachloroethene	0.36	U	1.0	0.36
108-88-3	Toluene	0.51	U	1.0	0.51
79-01-6	Trichloroethene	0.46	U	1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8410.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 14:55:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120894-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:27:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 17:27:19

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	4.742	4.742	0.000	98	100274	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	202209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.003	8.997	0.006	95	238117	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.260	4.261	-0.001	92	177563	25.0	27.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	99	100226	25.0	27.4	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	503786	25.0	25.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.052	8.046	0.006	95	181388	25.0	26.8	
10 Dichlorodifluoromethane	85		1.121					ND	
11 Chlorodifluoromethane	51		1.139					ND	
12 Chloromethane	50		1.279					ND	
13 Vinyl chloride	62		1.353					ND	
144 Butadiene	54		1.371					ND	
14 Bromomethane	94		1.627					ND	
15 Chloroethane	64		1.694					ND	
16 Dichlorofluoromethane	67		1.901					ND	
17 Trichlorofluoromethane	101		1.901					ND	
18 Ethyl ether	59		2.151					ND	
141 Ethanol	45		2.164					ND	
19 Propene oxide	58		2.231					ND	
20 Acrolein	56		2.310					ND	
22 1,1-Dichloroethene	96		2.352					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.352					ND	
23 Acetone	43		2.456					ND	
25 Iodomethane	142		2.511					ND	
26 Carbon disulfide	76		2.541					ND	
24 Isopropyl alcohol	45		2.633					ND	
28 3-Chloro-1-propene	41		2.688					ND	
27 Methyl acetate	43		2.730					ND	
29 Acetonitrile	40		2.737					ND	
30 Methylene Chloride	84		2.822					ND	7
31 2-Methyl-2-propanol	59		2.974					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		3.011					ND	
34 trans-1,2-Dichloroethene	96		3.023					ND	
33 Acrylonitrile	53		3.066					ND	
35 Hexane	57		3.200					ND	
39 1,1-Dichloroethane	63		3.389					ND	
36 Isopropyl ether	45		3.413					ND	
132 Halothane	117		3.432					ND	
37 Vinyl acetate	43		3.438					ND	
40 2-Chloro-1,3-butadiene	53		3.450					ND	
38 1,1-Dimethoxyethane	75		3.474					ND	
41 Tert-butyl ethyl ether	59		3.706					ND	
44 2,2-Dichloropropane	77		3.840					ND	
45 cis-1,2-Dichloroethene	96		3.870					ND	
43 2-Butanone (MEK)	43		3.895					ND	
42 Ethyl acetate	43		3.932					ND	
46 Propionitrile	54		3.980					ND	
48 Chlorobromomethane	128		4.066					ND	
47 Methacrylonitrile	41		4.078					ND	
49 Tetrahydrofuran	42		4.084					ND	
50 Chloroform	83	4.132	4.133	-0.001	83	1525		0.1590	
51 1,1,1-Trichloroethane	97		4.230					ND	
52 Cyclohexane	56		4.236					ND	
55 Carbon tetrachloride	117		4.346					ND	
54 1,1-Dichloropropene	75		4.352					ND	
57 Benzene	78		4.523					ND	
146 Isooctane	57		4.529					ND	
53 Isobutyl alcohol	43		4.535					ND	
58 1,2-Dichloroethane	62		4.578					ND	
140 t-Amyl alcohol	59		4.584					ND	
56 Tert-amyl methyl ether	73		4.590					ND	
59 n-Heptane	43		4.675					ND	
1 1,4-Difluorobenzene	114		4.840					ND	
154 2,4,4-Trimethyl-1-pentene	55		4.931					ND	
62 Trichloroethene	95		5.023					ND	
60 n-Butanol	56		5.041					ND	
64 Methylcyclohexane	83		5.120					ND	
145 Ethyl acrylate	55		5.120					ND	
153 2,4,4-Trimethyl-2-pentene	97		5.126					ND	
65 1,2-Dichloropropane	63		5.212					ND	
63 Methyl methacrylate	41		5.291					ND	
67 Dibromomethane	93		5.321					ND	
66 1,4-Dioxane	88		5.321					ND	
68 Dichlorobromomethane	83		5.443					ND	
70 2-Nitropropane	43		5.639					ND	
69 2-Chloroethyl vinyl ether	63		5.657					ND	
71 Epichlorohydrin	57		5.736					ND	
72 cis-1,3-Dichloropropene	75		5.772					ND	
73 4-Methyl-2-pentanone (MIBK)	43		5.876					ND	
74 Toluene	92		5.998					ND	
76 2-Methylthiophene	97		6.114					ND	
77 trans-1,3-Dichloropropene	75		6.211					ND	
75 Ethyl methacrylate	69		6.242					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
78 3-Methylthiophene	97		6.242					ND	
79 1,1,2-Trichloroethane	83		6.358					ND	
81 Tetrachloroethene	166		6.413					ND	
82 1,3-Dichloropropane	76		6.486					ND	
80 2-Hexanone	43		6.528					ND	
155 n-Butyl acetate	43		6.614					ND	
83 Chlorodibromomethane	129		6.669					ND	
84 Ethylene Dibromide	107		6.754					ND	
139 1-Chlorohexane	55		7.077					ND	U
85 3-Chlorobenzotrifluoride	180		7.089					ND	
87 Chlorobenzene	112		7.120					ND	
86 4-Chlorobenzotrifluoride	180		7.132					ND	
88 Ethylbenzene	91		7.187					ND	
89 1,1,1,2-Tetrachloroethane	131		7.187					ND	
90 m-Xylene & p-Xylene	106		7.278					ND	
91 o-Xylene	106		7.601					ND	
92 Styrene	104		7.620					ND	
95 Bromoform	173		7.815					ND	
93 2-Chlorobenzotrifluoride	180		7.833					ND	
94 Isopropylbenzene	105		7.888					ND	
96 Cyclohexanone	55		8.034					ND	
101 Bromobenzene	156		8.174					ND	
97 1,1,2,2-Tetrachloroethane	83		8.199					ND	
99 N-Propylbenzene	91		8.229					ND	
100 1,2,3-Trichloropropane	110		8.229					ND	
98 trans-1,4-Dichloro-2-butene	53		8.235					ND	
103 2-Chlorotoluene	126		8.321					ND	
102 1,3,5-Trimethylbenzene	105		8.370					ND	
104 3-Chlorotoluene	126		8.376					ND	
105 4-Chlorotoluene	126		8.412					ND	
106 tert-Butylbenzene	134		8.638					ND	
107 1,2,4-Trimethylbenzene	105		8.687					ND	
108 Pentachloroethane	167		8.699					ND	
109 sec-Butylbenzene	105		8.821					ND	
110 4-Isopropyltoluene	119		8.937					ND	
111 1,3-Dichlorobenzene	146		8.943					ND	
114 Dicyclopentadiene	66		9.010					ND	
113 1,4-Dichlorobenzene	146		9.022					ND	
112 1,2,3-Trimethylbenzene	105		9.046					ND	
143 Benzyl chloride	91		9.150					ND	
115 n-Butylbenzene	91		9.284					ND	
116 1,2-Dichlorobenzene	146		9.339					ND	
117 1,2-Dibromo-3-Chloropropane	75		10.016					ND	
118 1,3,5-Trichlorobenzene	180		10.150					ND	
119 1,2,4-Trichlorobenzene	180		10.680					ND	
120 Hexachlorobutadiene	225		10.790					ND	
121 Naphthalene	128		10.893					ND	
122 1,2,3-Trichlorobenzene	180		11.089					ND	
142 2-Methylnaphthalene	142		11.778					ND	
149 Hexachloroethane	117		0.000					ND	
152 cis-1,4-Dichloro-2-butene	88		0.000					ND	
150 Nitrobenzene	77		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 123 Total BTEX	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

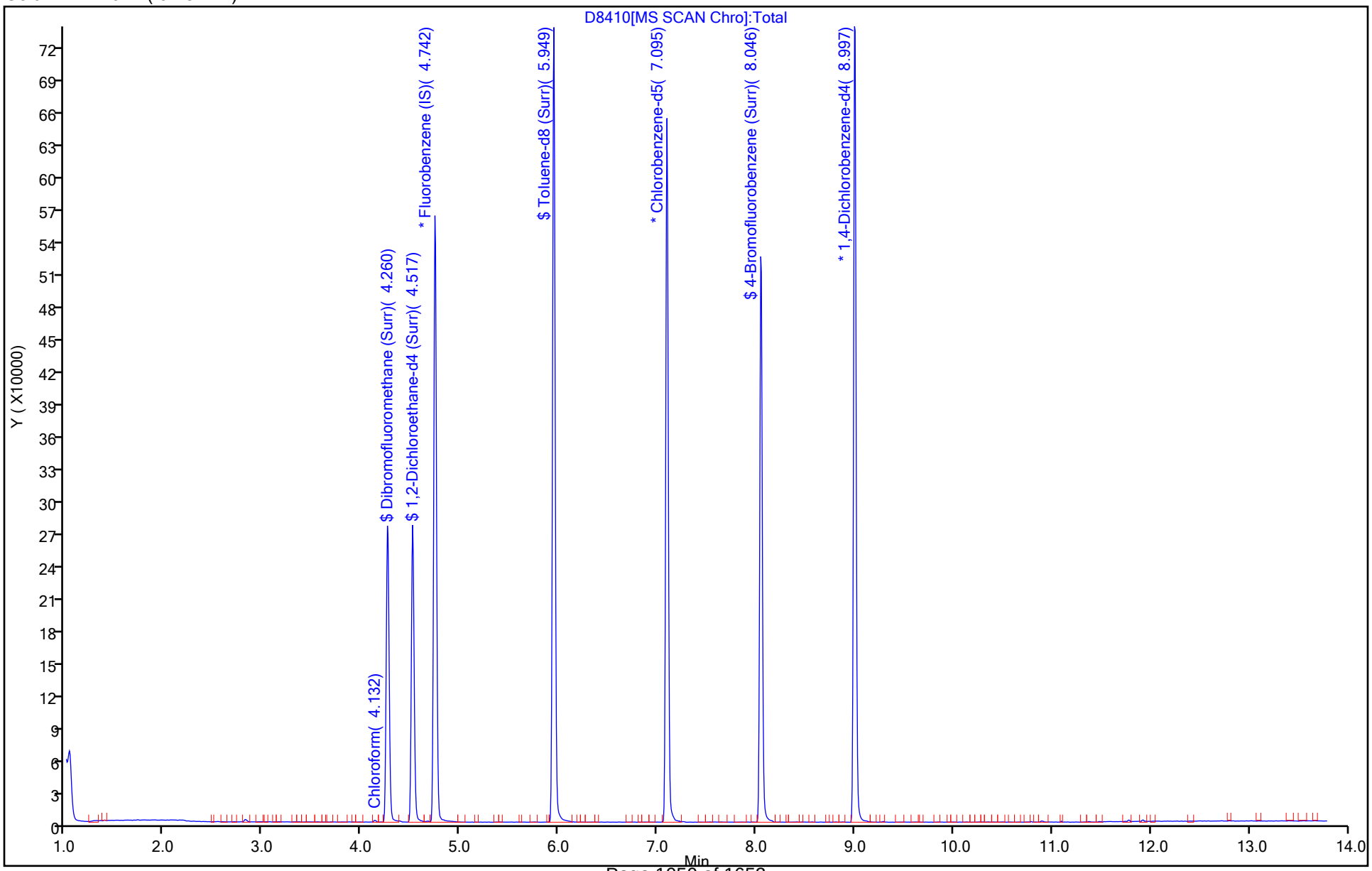
Report Date: 29-Oct-2024 17:27:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8410.d

Injection Date:	29-Oct-2024 14:55:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8410.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 29-Oct-2024 14:55:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0120894-008
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:27:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 17:27:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.5	110.17
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.4	109.65
$ 5 Toluene-d8 (Surr)	25.0	25.8	103.27
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.8	107.04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730076/6

Matrix: Water | Lab File ID: D8339.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 12:38

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	25.0		1.0	0.41
75-15-0	Carbon disulfide	26.2		1.0	0.19
56-23-5	Carbon tetrachloride	30.0		1.0	0.27
108-90-7	Chlorobenzene	25.5		1.0	0.75
67-66-3	Chloroform	25.6		1.0	0.34
75-09-2	Methylene Chloride	25.0		1.0	0.44
127-18-4	Tetrachloroethene	27.5		1.0	0.36
108-88-3	Toluene	24.6		1.0	0.51
79-01-6	Trichloroethene	26.8		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Report Date: 28-Oct-2024 16:16:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8339.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Oct-2024 12:38:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120860-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:16:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:16:19

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	4.730	4.730	0.000	98	96257	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.083	7.083	0.000	87	193990	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	95	228474	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.248	4.248	0.000	93	167809	25.0	27.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.504	4.504	0.000	98	93151	25.0	26.5	
$ 5 Toluene-d8 (Surr)	98	5.937	5.937	0.000	94	482536	25.0	25.8	
$ 6 4-Bromofluorobenzene (Surr)	174	8.040	8.040	0.000	96	173712	25.0	26.7	
10 Dichlorodifluoromethane	85	1.115	1.115	0.000	99	148097	25.0	19.1	
12 Chloromethane	50	1.267	1.267	0.000	99	192969	25.0	22.4	
13 Vinyl chloride	62	1.340	1.340	0.000	98	133931	25.0	25.3	
144 Butadiene	54	1.359	1.359	0.000	98	156508	25.0	29.8	
14 Bromomethane	94	1.615	1.615	0.000	92	104357	25.0	26.0	
15 Chloroethane	64	1.676	1.676	0.000	96	70224	25.0	26.4	
16 Dichlorofluoromethane	67	1.883	1.883	0.000	97	263657	25.0	30.5	
17 Trichlorofluoromethane	101	1.883	1.883	0.000	98	226067	25.0	32.6	
18 Ethyl ether	59	2.133	2.133	0.000	97	87265	25.0	25.6	
20 Acrolein	56	2.298	2.298	0.000	98	52064	125.0	94.9	
22 1,1-Dichloroethene	96	2.334	2.334	0.000	95	108084	25.0	27.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.334	2.334	0.000	93	126028	25.0	28.4	
23 Acetone	43	2.444	2.444	0.000	97	274645	125.0	134.8	
25 Iodomethane	142	2.480	2.480	0.000	98	259392	25.0	27.0	
26 Carbon disulfide	76	2.511	2.511	0.000	100	378611	25.0	26.2	
28 3-Chloro-1-propene	41	2.676	2.676	0.000	88	215086	25.0	24.6	
27 Methyl acetate	43	2.718	2.718	0.000	100	245503	50.0	47.5	
30 Methylene Chloride	84	2.804	2.804	0.000	96	122978	25.0	25.0	
31 2-Methyl-2-propanol	59	2.962	2.962	0.000	97	167812	250.0	266.0	
32 Methyl tert-butyl ether	73	2.999	2.999	0.000	98	321735	25.0	25.6	
34 trans-1,2-Dichloroethene	96	3.011	3.011	0.000	96	122643	25.0	27.1	
33 Acrylonitrile	53	3.054	3.054	0.000	95	541093	250.0	235.4	
35 Hexane	57	3.188	3.188	0.000	95	175843	25.0	25.7	
39 1,1-Dichloroethane	63	3.377	3.377	0.000	97	236226	25.0	25.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.425	3.425	0.000	98	618238	50.0	51.7	
44 2,2-Dichloropropane	77	3.828	3.828	0.000	93	162324	25.0	32.7	
45 cis-1,2-Dichloroethene	96	3.858	3.858	0.000	83	131705	25.0	25.9	
43 2-Butanone (MEK)	43	3.883	3.883	0.000	97	380176	125.0	122.3	
48 Chlorobromomethane	128	4.053	4.053	0.000	98	78088	25.0	26.4	
49 Tetrahydrofuran	42	4.072	4.072	0.000	90	94803	50.0	42.4	
50 Chloroform	83	4.120	4.120	0.000	94	236040	25.0	25.6	
51 1,1,1-Trichloroethane	97	4.218	4.218	0.000	98	206561	25.0	29.2	
52 Cyclohexane	56	4.224	4.224	0.000	97	211077	25.0	25.4	
55 Carbon tetrachloride	117	4.334	4.334	0.000	98	200316	25.0	30.0	
54 1,1-Dichloropropene	75	4.346	4.346	0.000	93	165103	25.0	27.1	
57 Benzene	78	4.511	4.511	0.000	96	429433	25.0	25.0	
53 Isobutyl alcohol	43	4.523	4.523	0.000	92	184308	625.0	602.7	
58 1,2-Dichloroethane	62	4.565	4.565	0.000	97	193584	25.0	26.0	
59 n-Heptane	43	4.663	4.663	0.000	97	200095	25.0	23.8	
62 Trichloroethene	95	5.010	5.010	0.000	96	131913	25.0	26.8	
64 Methylcyclohexane	83	5.108	5.108	0.000	98	180790	25.0	27.3	
65 1,2-Dichloropropane	63	5.199	5.199	0.000	92	120428	25.0	24.3	
67 Dibromomethane	93	5.309	5.309	0.000	96	94702	25.0	26.7	
66 1,4-Dioxane	88	5.315	5.315	0.000	40	22736	500.0	511.2	
68 Dichlorobromomethane	83	5.431	5.431	0.000	97	168098	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	5.651	5.651	0.000	93	79452	25.0	25.3	
72 cis-1,3-Dichloropropene	75	5.760	5.760	0.000	92	179349	25.0	25.7	
73 4-Methyl-2-pentanone (MIBK)	43	5.870	5.870	0.000	99	823799	125.0	121.4	
74 Toluene	92	5.986	5.986	0.000	98	263033	25.0	24.6	
77 trans-1,3-Dichloropropene	75	6.199	6.199	0.000	97	159649	25.0	25.4	
75 Ethyl methacrylate	69	6.230	6.230	0.000	96	145638	25.0	26.0	
79 1,1,2-Trichloroethane	83	6.346	6.346	0.000	93	90069	25.0	24.1	
81 Tetrachloroethene	166	6.407	6.407	0.000	97	142031	25.0	27.5	
82 1,3-Dichloropropane	76	6.474	6.474	0.000	96	162419	25.0	24.4	
80 2-Hexanone	43	6.516	6.516	0.000	99	620269	125.0	129.0	
83 Chlorodibromomethane	129	6.656	6.656	0.000	90	148028	25.0	26.6	
84 Ethylene Dibromide	107	6.742	6.742	0.000	99	126772	25.0	25.8	
87 Chlorobenzene	112	7.108	7.108	0.000	95	320841	25.0	25.5	
88 Ethylbenzene	91	7.175	7.175	0.000	99	505730	25.0	26.2	
89 1,1,1,2-Tetrachloroethane	131	7.181	7.181	0.000	96	133839	25.0	27.3	
90 m-Xylene & p-Xylene	106	7.266	7.266	0.000	99	194998	25.0	26.0	
91 o-Xylene	106	7.589	7.589	0.000	97	197641	25.0	27.0	
92 Styrene	104	7.614	7.614	0.000	95	324011	25.0	26.6	
95 Bromoform	173	7.809	7.809	0.000	96	96967	25.0	25.4	
94 Isopropylbenzene	105	7.882	7.882	0.000	96	485879	25.0	26.4	
101 Bromobenzene	156	8.162	8.162	0.000	90	155883	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	8.187	8.187	0.000	96	164180	25.0	23.1	
99 N-Propylbenzene	91	8.217	8.217	0.000	99	609344	25.0	25.3	
100 1,2,3-Trichloropropane	110	8.223	8.223	0.000	87	45172	25.0	25.0	
98 trans-1,4-Dichloro-2-butene	53	8.229	8.229	0.000	77	17751	25.0	8.74	
103 2-Chlorotoluene	126	8.309	8.309	0.000	97	136931	25.0	25.7	
102 1,3,5-Trimethylbenzene	105	8.363	8.363	0.000	94	455948	25.0	26.5	
105 4-Chlorotoluene	126	8.400	8.400	0.000	97	141434	25.0	25.6	
106 tert-Butylbenzene	134	8.632	8.632	0.000	94	88597	25.0	26.9	
107 1,2,4-Trimethylbenzene	105	8.674	8.674	0.000	98	467713	25.0	26.2	
109 sec-Butylbenzene	105	8.808	8.808	0.000	95	578505	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
110 4-Isopropyltoluene	119	8.930	8.930	0.000	97	515482	25.0	26.7	
111 1,3-Dichlorobenzene	146	8.937	8.937	0.000	98	286026	25.0	24.3	
113 1,4-Dichlorobenzene	146	9.010	9.010	0.000	97	297921	25.0	24.2	
115 n-Butylbenzene	91	9.272	9.272	0.000	98	465517	25.0	26.5	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.000	99	291036	25.0	24.9	
117 1,2-Dibromo-3-Chloropropane	75	10.003	10.003	0.000	87	31834	25.0	25.2	
119 1,2,4-Trichlorobenzene	180	10.674	10.674	0.000	94	225221	25.0	27.1	
120 Hexachlorobutadiene	225	10.778	10.778	0.000	97	122961	25.0	28.6	
121 Naphthalene	128	10.881	10.881	0.000	97	529679	25.0	26.8	
122 1,2,3-Trichlorobenzene	180	11.082	11.082	0.000	97	215076	25.0	26.2	
S 125 1,2-Dichloroethene, Total	1				0			52.9	
S 126 1,3-Dichloropropene, Total	1				0			51.1	
S 124 Xylenes, Total	1				0			53.0	
S 123 Total BTEX	1				0			128.8	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

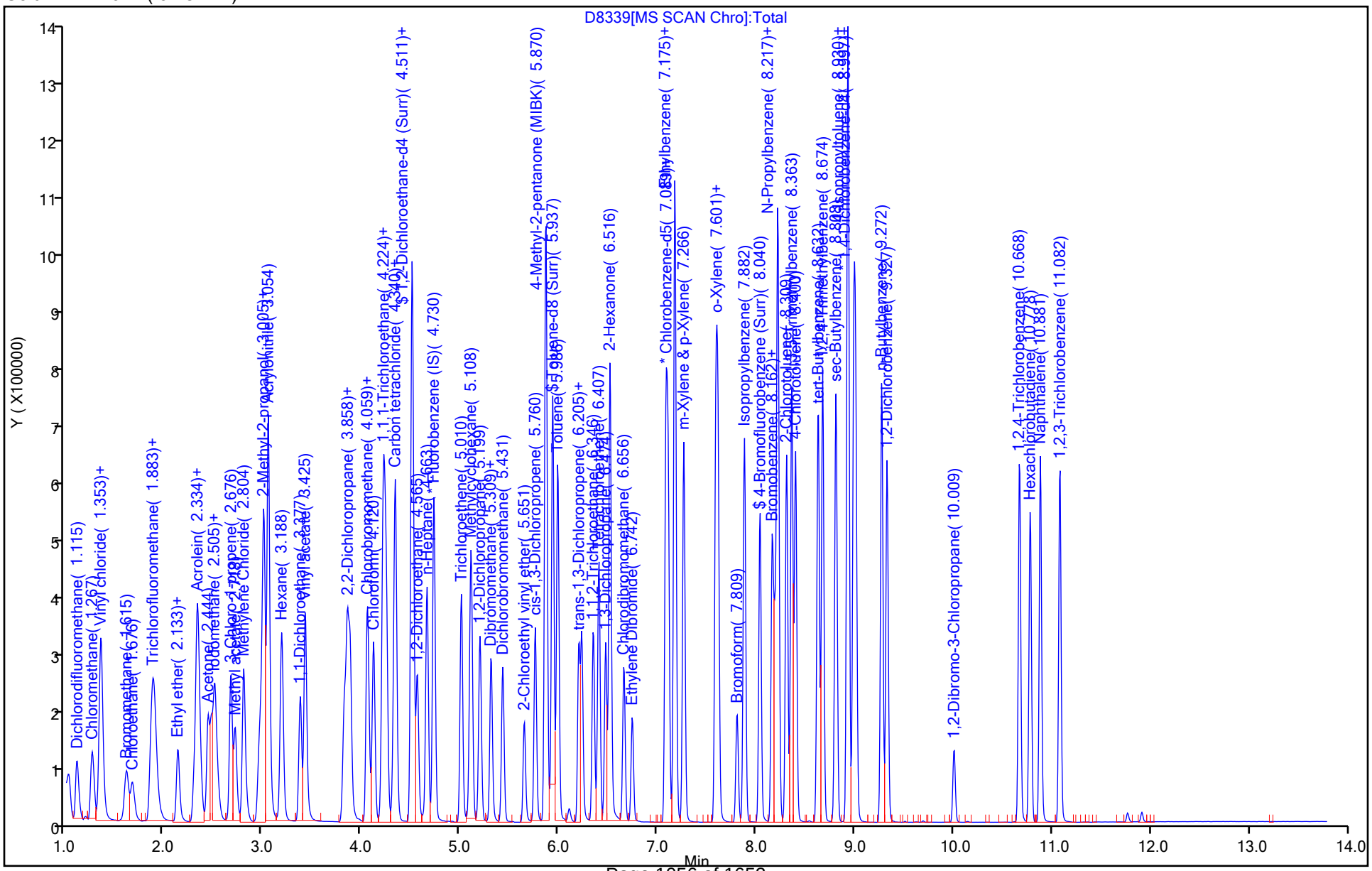
Report Date: 28-Oct-2024 16:16:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8339.d

Injection Date:	28-Oct-2024 12:38:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8339.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Oct-2024 12:38:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120860-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Oct-2024 16:16:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1637

First Level Reviewer: R3QB Date: 28-Oct-2024 16:16:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.1	108.46
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.5	106.16
$ 5 Toluene-d8 (Surr)	25.0	25.8	103.10
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.7	106.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730119/6

Matrix: Water | Lab File ID: D8374.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 01:35

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.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	24.6		1.0	0.41
75-15-0	Carbon disulfide	25.2		1.0	0.19
56-23-5	Carbon tetrachloride	30.0		1.0	0.27
108-90-7	Chlorobenzene	25.1		1.0	0.75
67-66-3	Chloroform	25.9		1.0	0.34
75-09-2	Methylene Chloride	25.5		1.0	0.44
127-18-4	Tetrachloroethene	26.8		1.0	0.36
108-88-3	Toluene	24.8		1.0	0.51
79-01-6	Trichloroethene	26.8		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-123
2037-26-5	Toluene-d8 (Surr)	104		80-120

Report Date: 29-Oct-2024 14:03:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8374.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 01:35:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LYS
Misc. Info.: 480-0120866-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:03:12 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:03:12

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	4.736	4.736	0.000	98	94270	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	86	187785	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	94	216790	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	95	168616	25.0	27.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	99	91765	25.0	26.7	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	470557	25.0	26.0	
$ 6 4-Bromofluorobenzene (Surr)	174	8.046	8.046	0.000	96	165294	25.0	26.3	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	127778	25.0	16.8	
12 Chloromethane	50	1.273	1.273	0.000	99	171991	25.0	20.4	
13 Vinyl chloride	62	1.346	1.346	0.000	98	121276	25.0	23.4	
144 Butadiene	54	1.365	1.365	0.000	97	132179	25.0	25.7	
14 Bromomethane	94	1.621	1.621	0.000	92	98070	25.0	25.0	
15 Chloroethane	64	1.688	1.688	0.000	95	66834	25.0	25.6	
16 Dichlorofluoromethane	67	1.895	1.895	0.000	98	243426	25.0	28.8	
17 Trichlorofluoromethane	101	1.895	1.895	0.000	98	207581	25.0	30.5	
18 Ethyl ether	59	2.145	2.145	0.000	97	83609	25.0	25.0	
20 Acrolein	56	2.304	2.304	0.000	98	47393	125.0	88.2	
22 1,1-Dichloroethene	96	2.340	2.340	0.000	95	103010	25.0	26.5	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.346	2.346	0.000	93	116494	25.0	26.8	
23 Acetone	43	2.450	2.450	0.000	97	267006	125.0	133.8	
25 Iodomethane	142	2.486	2.486	0.000	98	250556	25.0	26.6	
26 Carbon disulfide	76	2.523	2.523	0.000	100	356603	25.0	25.2	
28 3-Chloro-1-propene	41	2.682	2.682	0.000	88	201256	25.0	23.5	
27 Methyl acetate	43	2.724	2.724	0.000	100	248648	50.0	49.2	
30 Methylene Chloride	84	2.810	2.810	0.000	96	122396	25.0	25.5	
31 2-Methyl-2-propanol	59	2.968	2.968	0.000	98	173538	250.0	280.9	
32 Methyl tert-butyl ether	73	3.005	3.005	0.000	99	319562	25.0	25.9	
34 trans-1,2-Dichloroethene	96	3.017	3.017	0.000	95	116241	25.0	26.2	
33 Acrylonitrile	53	3.060	3.060	0.000	96	554618	250.0	246.3	
35 Hexane	57	3.194	3.194	0.000	95	148587	25.0	22.2	
39 1,1-Dichloroethane	63	3.383	3.383	0.000	97	227409	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.431	3.431	0.000	97	563918	50.0	48.2	
44 2,2-Dichloropropane	77	3.834	3.834	0.000	92	133345	25.0	27.5	
45 cis-1,2-Dichloroethene	96	3.864	3.864	0.000	89	128920	25.0	25.8	
43 2-Butanone (MEK)	43	3.889	3.889	0.000	97	389375	125.0	127.9	
48 Chlorobromomethane	128	4.059	4.059	0.000	98	77711	25.0	26.8	
49 Tetrahydrofuran	42	4.078	4.078	0.000	91	99116	50.0	45.2	
50 Chloroform	83	4.126	4.126	0.000	94	233673	25.0	25.9	
51 1,1,1-Trichloroethane	97	4.224	4.224	0.000	99	204247	25.0	29.5	
52 Cyclohexane	56	4.230	4.230	0.000	97	207225	25.0	25.5	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	195760	25.0	30.0	
54 1,1-Dichloropropene	75	4.352	4.352	0.000	94	157903	25.0	26.5	
57 Benzene	78	4.517	4.517	0.000	96	413541	25.0	24.6	
53 Isobutyl alcohol	43	4.523	4.523	0.000	92	197398	625.0	659.1	
58 1,2-Dichloroethane	62	4.571	4.571	0.000	97	193453	25.0	26.6	
59 n-Heptane	43	4.669	4.669	0.000	97	162704	25.0	19.7	
62 Trichloroethene	95	5.016	5.016	0.000	96	128989	25.0	26.8	
64 Methylcyclohexane	83	5.114	5.114	0.000	98	170081	25.0	26.3	
65 1,2-Dichloropropane	63	5.205	5.205	0.000	92	119157	25.0	24.5	
67 Dibromomethane	93	5.315	5.315	0.000	96	95689	25.0	27.5	
66 1,4-Dioxane	88	5.321	5.321	0.000	39	23635	500.0	547.9	
68 Dichlorobromomethane	83	5.437	5.437	0.000	97	167603	25.0	27.4	
69 2-Chloroethyl vinyl ether	63	5.651	5.651	0.000	93	79358	25.0	25.8	
72 cis-1,3-Dichloropropene	75	5.766	5.766	0.000	92	177342	25.0	25.9	
73 4-Methyl-2-pentanone (MIBK)	43	5.870	5.870	0.000	99	832554	125.0	126.7	
74 Toluene	92	5.992	5.992	0.000	98	256740	25.0	24.8	
77 trans-1,3-Dichloropropene	75	6.205	6.205	0.000	97	159166	25.0	26.2	
75 Ethyl methacrylate	69	6.236	6.236	0.000	96	144142	25.0	26.6	
79 1,1,2-Trichloroethane	83	6.352	6.352	0.000	94	87290	25.0	24.2	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	133712	25.0	26.8	
82 1,3-Dichloropropane	76	6.480	6.480	0.000	96	157481	25.0	24.5	
80 2-Hexanone	43	6.522	6.522	0.000	99	599935	125.0	128.9	
83 Chlorodibromomethane	129	6.663	6.663	0.000	90	146402	25.0	27.2	
84 Ethylene Dibromide	107	6.748	6.748	0.000	99	125267	25.0	26.3	
87 Chlorobenzene	112	7.114	7.114	0.000	96	305869	25.0	25.1	
88 Ethylbenzene	91	7.181	7.181	0.000	99	485012	25.0	26.0	
89 1,1,1,2-Tetrachloroethane	131	7.181	7.181	0.000	96	131557	25.0	27.8	
90 m-Xylene & p-Xylene	106	7.272	7.272	0.000	99	190643	25.0	26.3	
91 o-Xylene	106	7.595	7.595	0.000	97	189172	25.0	26.7	
92 Styrene	104	7.620	7.620	0.000	95	307380	25.0	26.0	
95 Bromoform	173	7.809	7.809	0.000	97	97470	25.0	26.3	
94 Isopropylbenzene	105	7.888	7.888	0.000	96	457878	25.0	26.3	
101 Bromobenzene	156	8.168	8.168	0.000	89	147946	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	8.193	8.193	0.000	95	157356	25.0	23.3	
99 N-Propylbenzene	91	8.223	8.223	0.000	99	570597	25.0	24.9	
100 1,2,3-Trichloropropane	110	8.223	8.223	0.000	87	44480	25.0	26.0	
98 trans-1,4-Dichloro-2-butene	53	8.229	8.229	0.000	79	19026	25.0	9.79	
103 2-Chlorotoluene	126	8.315	8.315	0.000	97	128641	25.0	25.4	
102 1,3,5-Trimethylbenzene	105	8.363	8.363	0.000	94	425128	25.0	26.0	
105 4-Chlorotoluene	126	8.406	8.406	0.000	96	130751	25.0	25.0	
106 tert-Butylbenzene	134	8.632	8.632	0.000	93	84216	25.0	26.9	
107 1,2,4-Trimethylbenzene	105	8.680	8.680	0.000	97	438720	25.0	25.9	
109 sec-Butylbenzene	105	8.815	8.815	0.000	95	548927	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
110 4-Isopropyltoluene	119	8.930	8.930	0.000	97	492961	25.0	26.9	
111 1,3-Dichlorobenzene	146	8.936	8.936	0.000	98	275473	25.0	24.7	
113 1,4-Dichlorobenzene	146	9.016	9.016	0.000	96	283185	25.0	24.3	
115 n-Butylbenzene	91	9.278	9.278	0.000	98	430437	25.0	25.9	
116 1,2-Dichlorobenzene	146	9.333	9.333	0.000	99	278601	25.0	25.1	
117 1,2-Dibromo-3-Chloropropane	75	10.009	10.009	0.000	88	32511	25.0	27.1	
119 1,2,4-Trichlorobenzene	180	10.674	10.674	0.000	95	212961	25.0	27.0	
120 Hexachlorobutadiene	225	10.784	10.784	0.000	97	113649	25.0	27.8	
121 Naphthalene	128	10.887	10.887	0.000	97	525601	25.0	28.0	
122 1,2,3-Trichlorobenzene	180	11.082	11.082	0.000	95	207090	25.0	26.6	
S 125 1,2-Dichloroethene, Total	1				0			52.1	
S 126 1,3-Dichloropropene, Total	1				0			52.1	
S 124 Xylenes, Total	1				0			53.0	
S 123 Total BTEX	1				0			128.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added:	12.50	Units: uL	
GAS CORP mix_00646	Amount Added:	12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added:	1.00	Units: uL	Run Reagent

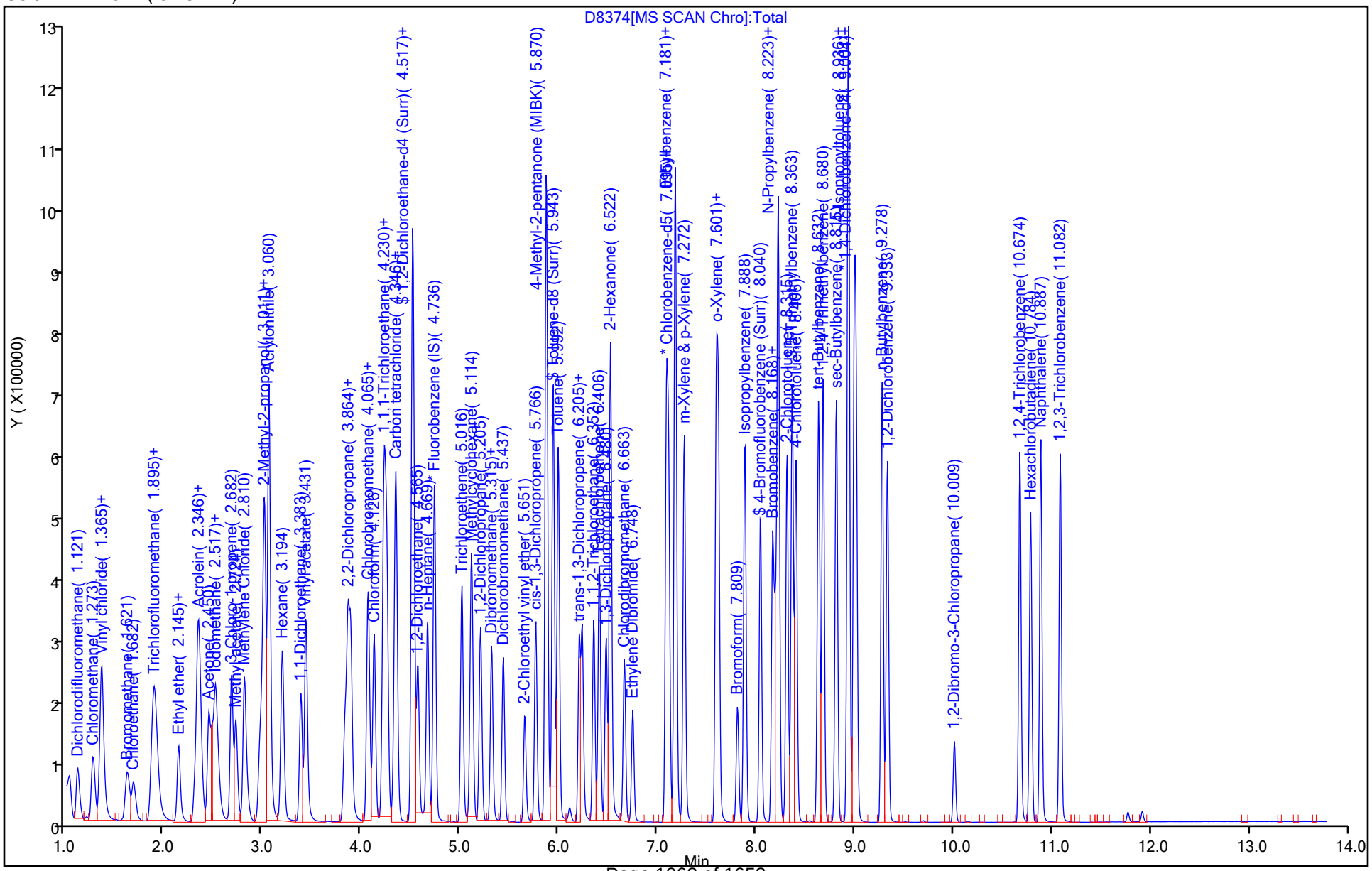
Report Date: 29-Oct-2024 14:03:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8374.d

Injection Date:	29-Oct-2024 01:35:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	39
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8374.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 01:35:30 ALS Bottle#: 39 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LYS
Misc. Info.: 480-0120866-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:03:12 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:03:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.8	111.28
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.7	106.79
$ 5 Toluene-d8 (Surr)	25.0	26.0	103.86
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.3	105.03

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730274/6

Matrix: Water | Lab File ID: D8408.d

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 14:11

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.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	25.3		1.0	0.41
75-15-0	Carbon disulfide	25.8		1.0	0.19
56-23-5	Carbon tetrachloride	30.2		1.0	0.27
108-90-7	Chlorobenzene	26.1		1.0	0.75
67-66-3	Chloroform	25.8		1.0	0.34
75-09-2	Methylene Chloride	25.5		1.0	0.44
127-18-4	Tetrachloroethene	28.6		1.0	0.36
108-88-3	Toluene	25.0		1.0	0.51
79-01-6	Trichloroethene	26.3		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8408.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 14:11:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120894-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:18:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 17:18:19

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	4.742	4.742	0.000	98	94980	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	91	187123	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	96	220584	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	94	163680	25.0	26.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	92795	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	95	463244	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	8.046	8.046	0.000	95	168807	25.0	26.9	
10 Dichlorodifluoromethane	85	1.121	1.121	0.000	99	218714	25.0	28.6	
12 Chloromethane	50	1.279	1.279	0.000	99	213182	25.0	25.1	
13 Vinyl chloride	62	1.353	1.353	0.000	98	139061	25.0	26.6	
144 Butadiene	54	1.371	1.371	0.000	98	139142	25.0	26.8	
14 Bromomethane	94	1.627	1.627	0.000	91	102808	25.0	26.0	
15 Chloroethane	64	1.694	1.694	0.000	96	67609	25.0	25.7	
16 Dichlorofluoromethane	67	1.901	1.901	0.000	97	234088	25.0	27.5	
17 Trichlorofluoromethane	101	1.901	1.901	0.000	98	216212	25.0	31.6	
18 Ethyl ether	59	2.151	2.151	0.000	98	83333	25.0	24.7	
20 Acrolein	56	2.310	2.310	0.000	97	50295	125.0	92.9	
22 1,1-Dichloroethene	96	2.352	2.352	0.000	94	106286	25.0	27.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.352	2.352	0.000	94	123592	25.0	28.3	
23 Acetone	43	2.456	2.456	0.000	97	275749	125.0	137.2	
25 Iodomethane	142	2.511	2.511	0.000	98	254816	25.0	26.9	
26 Carbon disulfide	76	2.541	2.541	0.000	100	368511	25.0	25.8	
28 3-Chloro-1-propene	41	2.688	2.688	0.000	88	211982	25.0	24.6	
27 Methyl acetate	43	2.730	2.730	0.000	100	241989	50.0	47.5	
30 Methylene Chloride	84	2.822	2.822	0.000	96	123689	25.0	25.5	
31 2-Methyl-2-propanol	59	2.974	2.974	0.000	96	173243	250.0	278.3	
32 Methyl tert-butyl ether	73	3.011	3.011	0.000	99	315607	25.0	25.4	
34 trans-1,2-Dichloroethene	96	3.023	3.023	0.000	95	118276	25.0	26.5	
33 Acrylonitrile	53	3.066	3.066	0.000	96	530272	250.0	233.8	
35 Hexane	57	3.200	3.200	0.000	95	175234	25.0	26.0	
39 1,1-Dichloroethane	63	3.389	3.389	0.000	97	227563	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.438	3.438	0.000	97	591364	50.0	50.1	
44 2,2-Dichloropropane	77	3.840	3.840	0.000	91	149895	25.0	30.6	
45 cis-1,2-Dichloroethene	96	3.870	3.870	0.000	85	128571	25.0	25.6	
43 2-Butanone (MEK)	43	3.895	3.895	0.000	97	390027	125.0	127.2	
48 Chlorobromomethane	128	4.066	4.066	0.000	98	78222	25.0	26.8	
49 Tetrahydrofuran	42	4.084	4.084	0.000	91	96420	50.0	43.7	
50 Chloroform	83	4.133	4.133	0.000	95	234165	25.0	25.8	
51 1,1,1-Trichloroethane	97	4.230	4.230	0.000	98	205620	25.0	29.5	
52 Cyclohexane	56	4.236	4.236	0.000	97	210862	25.0	25.8	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	198938	25.0	30.2	
54 1,1-Dichloropropene	75	4.352	4.352	0.000	92	163301	25.0	27.2	
57 Benzene	78	4.523	4.523	0.000	97	428666	25.0	25.3	
53 Isobutyl alcohol	43	4.535	4.535	0.000	92	191772	625.0	635.5	
58 1,2-Dichloroethane	62	4.578	4.578	0.000	97	197655	25.0	26.9	
59 n-Heptane	43	4.675	4.675	0.000	97	200195	25.0	24.1	
62 Trichloroethene	95	5.023	5.023	0.000	96	127611	25.0	26.3	
64 Methylcyclohexane	83	5.120	5.120	0.000	98	179938	25.0	27.6	
65 1,2-Dichloropropane	63	5.212	5.212	0.000	92	118761	25.0	24.2	
67 Dibromomethane	93	5.321	5.321	0.000	97	93425	25.0	26.7	
66 1,4-Dioxane	88	5.321	5.321	0.000	44	24327	500.0	565.4	
68 Dichlorobromomethane	83	5.443	5.443	0.000	97	167031	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	5.657	5.657	0.000	93	77332	25.0	25.0	
72 cis-1,3-Dichloropropene	75	5.772	5.772	0.000	92	179525	25.0	26.1	
73 4-Methyl-2-pentanone (MIBK)	43	5.876	5.876	0.000	99	796846	125.0	121.7	
74 Toluene	92	5.998	5.998	0.000	98	257443	25.0	25.0	
77 trans-1,3-Dichloropropene	75	6.211	6.211	0.000	96	163972	25.0	27.0	
75 Ethyl methacrylate	69	6.242	6.242	0.000	96	145391	25.0	26.9	
79 1,1,2-Trichloroethane	83	6.358	6.358	0.000	93	89345	25.0	24.8	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	142384	25.0	28.6	
82 1,3-Dichloropropane	76	6.486	6.486	0.000	95	162341	25.0	25.3	
80 2-Hexanone	43	6.528	6.528	0.000	99	600325	125.0	129.4	
83 Chlorodibromomethane	129	6.669	6.669	0.000	90	149492	25.0	27.8	
84 Ethylene Dibromide	107	6.754	6.754	0.000	99	128089	25.0	27.0	
87 Chlorobenzene	112	7.120	7.120	0.000	96	316965	25.0	26.1	
88 Ethylbenzene	91	7.187	7.187	0.000	99	493199	25.0	26.5	
89 1,1,1,2-Tetrachloroethane	131	7.187	7.187	0.000	96	131787	25.0	27.9	
90 m-Xylene & p-Xylene	106	7.278	7.278	0.000	99	197538	25.0	27.4	
91 o-Xylene	106	7.601	7.601	0.000	97	196926	25.0	27.8	
92 Styrene	104	7.620	7.620	0.000	95	323679	25.0	27.5	
95 Bromoform	173	7.815	7.815	0.000	96	99043	25.0	26.8	
94 Isopropylbenzene	105	7.888	7.888	0.000	96	477237	25.0	26.9	
101 Bromobenzene	156	8.174	8.174	0.000	89	155666	25.0	26.0	
97 1,1,2,2-Tetrachloroethane	83	8.199	8.199	0.000	96	159539	25.0	23.2	
99 N-Propylbenzene	91	8.229	8.229	0.000	98	603017	25.0	25.9	
100 1,2,3-Trichloropropane	110	8.229	8.229	0.000	88	45305	25.0	26.0	
98 trans-1,4-Dichloro-2-butene	53	8.235	8.235	0.000	75	16963	25.0	8.66	
103 2-Chlorotoluene	126	8.321	8.321	0.000	97	134583	25.0	26.1	
102 1,3,5-Trimethylbenzene	105	8.370	8.370	0.000	94	443745	25.0	26.7	
105 4-Chlorotoluene	126	8.412	8.412	0.000	97	141057	25.0	26.5	
106 tert-Butylbenzene	134	8.638	8.638	0.000	94	86446	25.0	27.2	
107 1,2,4-Trimethylbenzene	105	8.687	8.687	0.000	98	461408	25.0	26.7	
109 sec-Butylbenzene	105	8.821	8.821	0.000	95	575287	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
110 4-Isopropyltoluene	119	8.937	8.937	0.000	97	510422	25.0	27.4	
111 1,3-Dichlorobenzene	146	8.943	8.943	0.000	98	291423	25.0	25.7	
113 1,4-Dichlorobenzene	146	9.022	9.022	0.000	96	294019	25.0	24.8	
115 n-Butylbenzene	91	9.284	9.284	0.000	98	455121	25.0	26.9	
116 1,2-Dichlorobenzene	146	9.339	9.339	0.000	99	289421	25.0	25.7	
117 1,2-Dibromo-3-Chloropropane	75	10.016	10.016	0.000	87	31615	25.0	25.9	
119 1,2,4-Trichlorobenzene	180	10.680	10.680	0.000	94	218197	25.0	27.2	
120 Hexachlorobutadiene	225	10.790	10.790	0.000	97	119120	25.0	28.7	
121 Naphthalene	128	10.893	10.893	0.000	97	520174	25.0	27.2	
122 1,2,3-Trichlorobenzene	180	11.089	11.089	0.000	96	210912	25.0	26.6	
S 125 1,2-Dichloroethene, Total	1				0			52.1	
S 126 1,3-Dichloropropene, Total	1				0			53.1	
S 124 Xylenes, Total	1				0			55.2	
S 123 Total BTEX	1				0			132.0	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

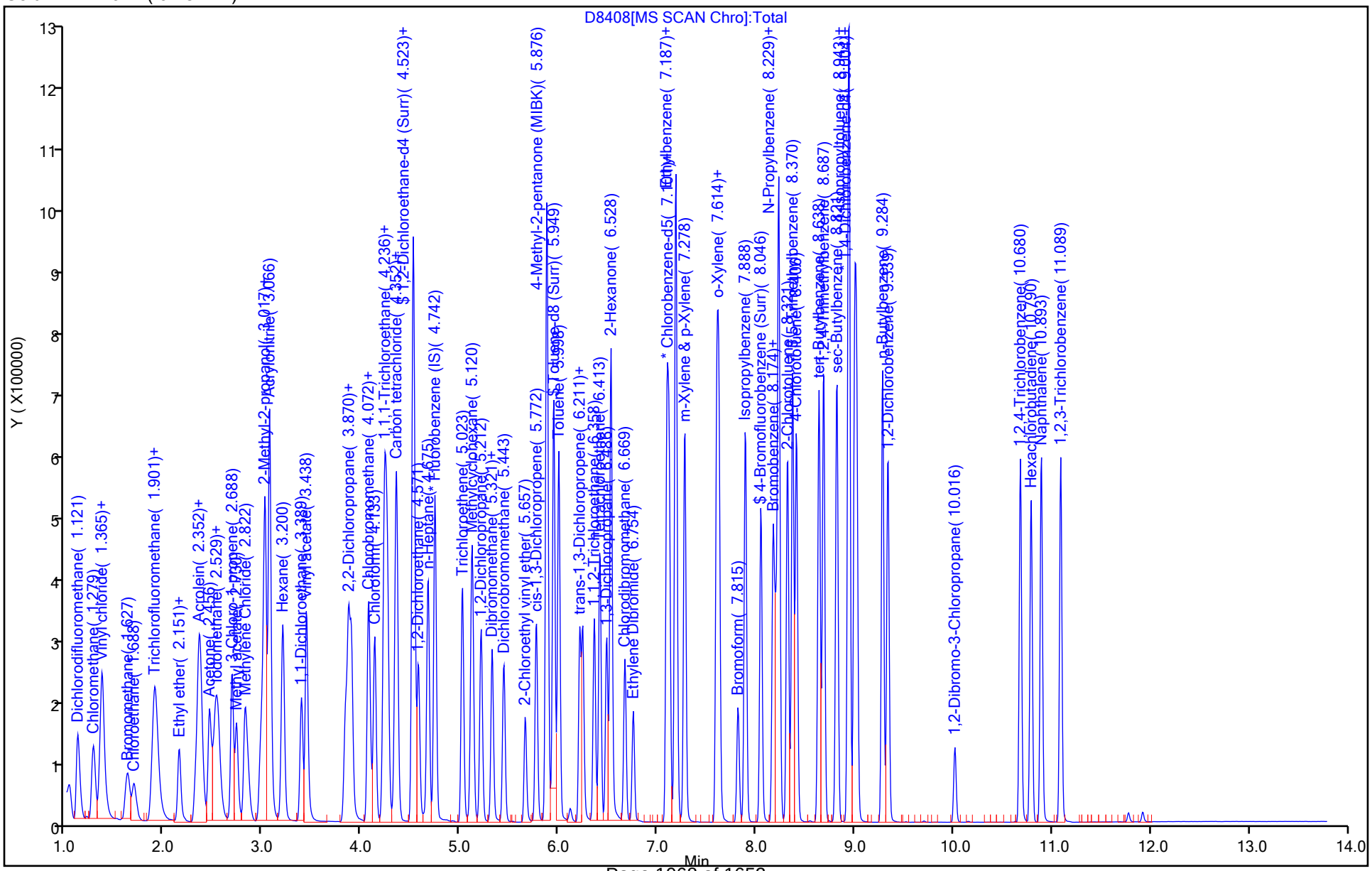
Report Date: 29-Oct-2024 17:18:21 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8408.d

Injection Date:	29-Oct-2024 14:11:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8408.d
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 29-Oct-2024 14:11:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0120894-006
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 17:18:19 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 17:18:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	26.8	107.21
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.8	107.18
$ 5 Toluene-d8 (Surr)	25.0	25.7	102.61
$ 6 4-Bromofluorobenzene (Surr)	25.0	26.9	107.64

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-2-102324 MS | Lab Sample ID: 480-224872-5 MS

Matrix: Water | Lab File ID: D8365.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 22:16

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	28.3		1.0	0.41
75-15-0	Carbon disulfide	30.1		1.0	0.19
56-23-5	Carbon tetrachloride	88.3		1.0	0.27
108-90-7	Chlorobenzene	29.0		1.0	0.75
67-66-3	Chloroform	67.9		1.0	0.34
75-09-2	Methylene Chloride	32.2		1.0	0.44
127-18-4	Tetrachloroethene	34.7		1.0	0.36
108-88-3	Toluene	27.8		1.0	0.51
79-01-6	Trichloroethene	32.5		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	104		80-120

Report Date: 29-Oct-2024 13:58:54 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8365.d
Lims ID: 480-224872-A-5 MS
Client ID: EW-2-102324
Sample Type: MS
Inject. Date: 28-Oct-2024 22:16:30 ALS Bottle#: 30 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-5 MS
Misc. Info.: 480-0120860-032
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:54

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	4.736	4.730	0.006	98	87768	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	181152	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.991	0.006	94	215707	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	94	159340	25.0	28.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	98	89259	25.0	27.9	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	454920	25.0	26.0	
26 Carbon disulfide	76	2.517	2.511	0.006	100	397020	25.0	30.1	
30 Methylene Chloride	84	2.810	2.804	0.006	97	142930	25.0	32.2	
50 Chloroform	83	4.126	4.120	0.006	95	569930	25.0	67.9	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	536898	25.0	88.3	
57 Benzene	78	4.516	4.511	0.005	97	443645	25.0	28.3	
62 Trichloroethene	95	5.016	5.010	0.006	96	145555	25.0	32.5	
74 Toluene	92	5.992	5.991	0.006	98	277423	25.0	27.8	
81 Tetrachloroethene	166	6.406	6.412	0.000	96	167505	25.0	34.7	
87 Chlorobenzene	112	7.114	7.114	0.006	98	340589	25.0	29.0	

QC Flag Legend
Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

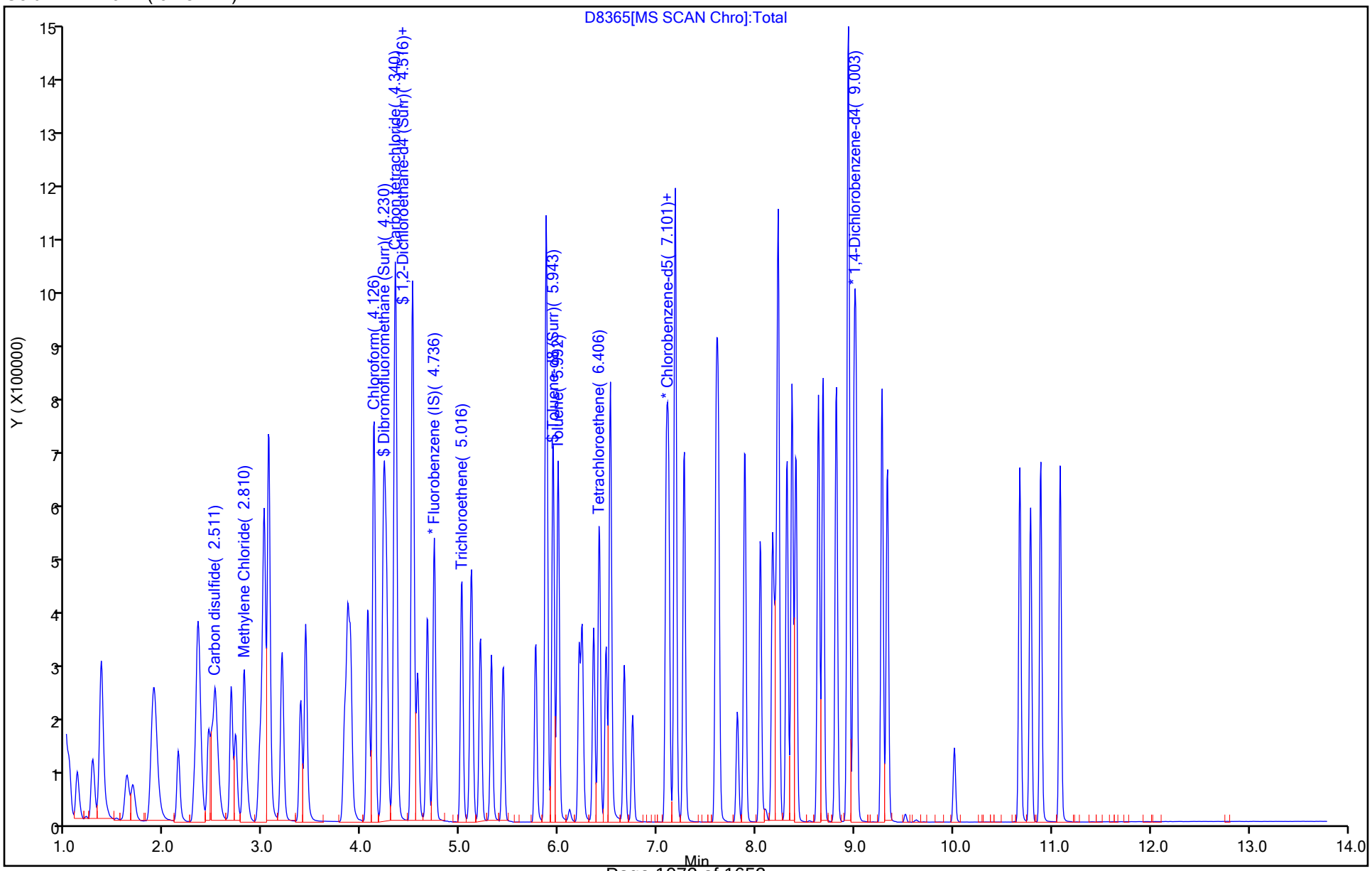
Report Date: 29-Oct-2024 13:58:54 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8365.d

Injection Date:	28-Oct-2024 22:16:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-5 MS			Worklist Smp#:	32
Client ID:	EW-2-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8365.d				
Lims ID:	480-224872-A-5 MS				
Client ID:	EW-2-102324				
Sample Type:	MS				
Inject. Date:	28-Oct-2024 22:16:30	ALS Bottle#:	30	Worklist Smp#:	32
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	480-224872-A-5 MS				
Misc. Info.:	480-0120860-032				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Oct-2024 13:58:44	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: R3QB Date: 29-Oct-2024 13:58:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.2	112.95
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.9	111.57
$ 5 Toluene-d8 (Surr)	25.0	26.0	104.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-3-102324 MS | Lab Sample ID: 480-224872-7 MS

Matrix: Water | Lab File ID: D8367.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 23:00

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1190		50	21
75-15-0	Carbon disulfide	1350		50	9.5
56-23-5	Carbon tetrachloride	3250		50	14
108-90-7	Chlorobenzene	1250		50	38
67-66-3	Chloroform	2150		50	17
75-09-2	Methylene Chloride	1300		50	22
127-18-4	Tetrachloroethene	1310		50	18
108-88-3	Toluene	1200		50	26
79-01-6	Trichloroethene	1370		50	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Report Date: 29-Oct-2024 13:59:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8367.d
Lims ID: 480-224872-A-7 MS
Client ID: EW-3-102324
Sample Type: MS
Inject. Date: 28-Oct-2024 23:00:30 ALS Bottle#: 32 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224872-A-7 MS
Misc. Info.: 480-0120860-034
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:08

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	4.736	4.730	0.006	98	91999	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	93	186378	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.991	8.991	0.000	94	219199	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.007	93	162646	25.0	27.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	90039	25.0	26.8	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	457591	25.0	25.4	
26 Carbon disulfide	76	2.523	2.511	0.012	100	372240	25.0	26.9	
30 Methylene Chloride	84	2.810	2.804	0.006	97	122237	25.0	26.1	
50 Chloroform	83	4.127	4.120	0.007	95	378274	25.0	43.0	
55 Carbon tetrachloride	117	4.340	4.334	0.006	97	413744	25.0	64.9	
57 Benzene	78	4.517	4.511	0.006	96	389922	25.0	23.8	
62 Trichloroethene	95	5.017	5.010	0.007	96	128614	25.0	27.4	
74 Toluene	92	5.992	5.991	0.006	98	245578	25.0	23.9	
81 Tetrachloroethene	166	6.413	6.412	0.007	96	130065	25.0	26.2	
87 Chlorobenzene	112	7.114	7.114	0.006	95	303094	25.0	25.1	

QC Flag Legend
Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

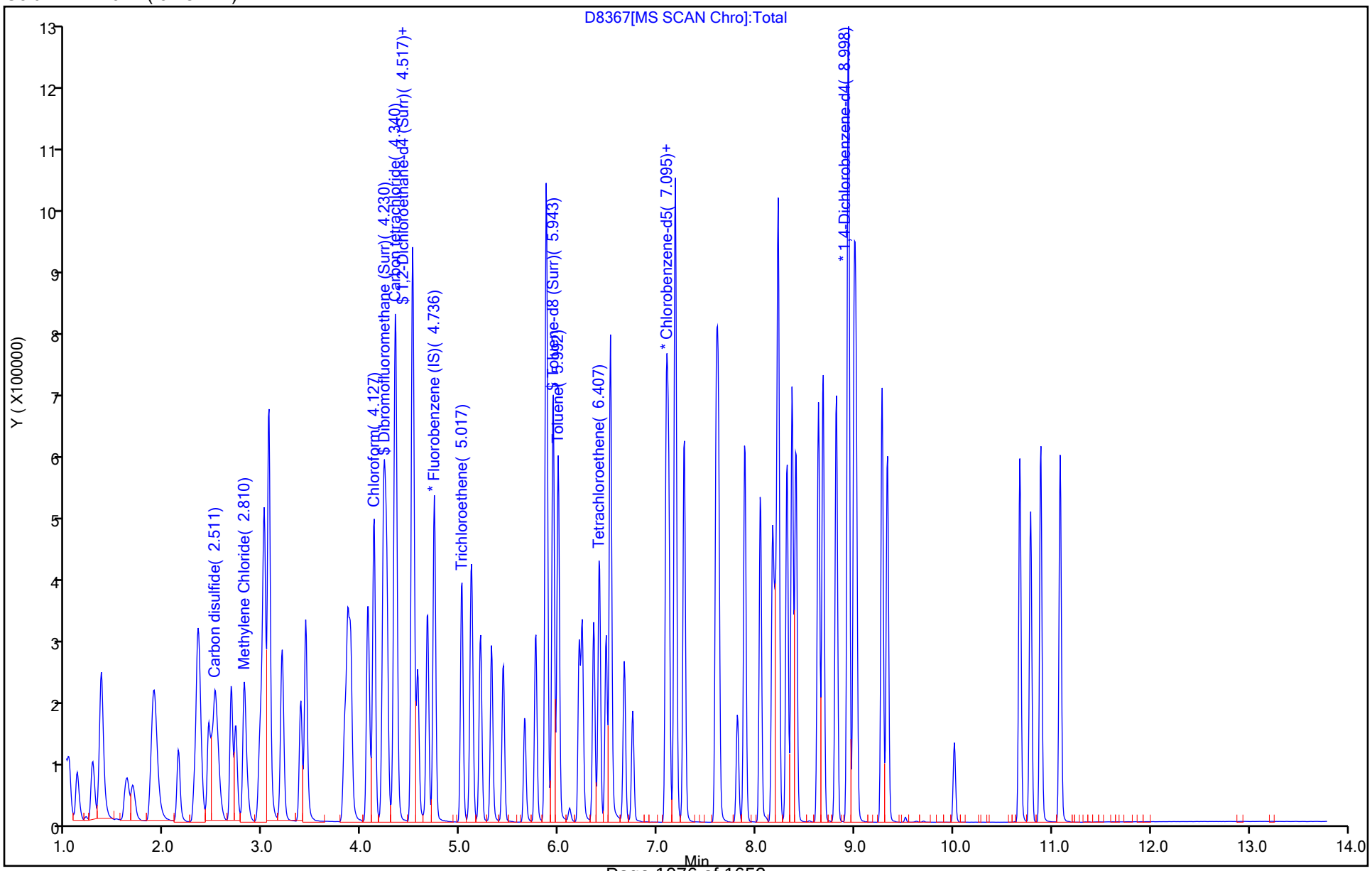
Report Date: 29-Oct-2024 13:59:09 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8367.d

Injection Date:	28-Oct-2024 23:00:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-7 MS			Worklist Smp#:	34
Client ID:	EW-3-102324				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	32
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8367.d				
Lims ID:	480-224872-A-7 MS				
Client ID:	EW-3-102324				
Sample Type:	MS				
Inject. Date:	28-Oct-2024 23:00:30	ALS Bottle#:	32	Worklist Smp#:	34
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Sample Info:	480-224872-A-7 MS				
Misc. Info.:	480-0120860-034				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Oct-2024 13:58:44	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.5	109.99
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.8	107.37
$ 5 Toluene-d8 (Surr)	25.0	25.4	101.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-66-102324 MS | Lab Sample ID: 480-224872-14 MS

Matrix: Water | Lab File ID: D8430.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 22:40

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	971		40	16
75-15-0	Carbon disulfide	1000		40	7.6
56-23-5	Carbon tetrachloride	2680		40	11
108-90-7	Chlorobenzene	986		40	30
67-66-3	Chloroform	1280		40	14
75-09-2	Methylene Chloride	1040		40	18
127-18-4	Tetrachloroethene	1110		40	14
108-88-3	Toluene	946		40	20
79-01-6	Trichloroethene	1050		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8430.d
Lims ID: 480-224872-B-14 MS
Client ID:
Sample Type: MS
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 26 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14 MS
Misc. Info.: 480-0120894-028
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:43:02

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	4.742	4.742	0.000	98	92430	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	189278	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.998	8.997	0.001	95	223286	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	93	166227	25.0	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	91060	25.0	27.0	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	468111	25.0	25.6	
26 Carbon disulfide	76	2.529	2.541	-0.012	100	347062	25.0	25.0	
30 Methylene Chloride	84	2.816	2.822	-0.006	96	121927	25.0	25.9	
50 Chloroform	83	4.133	4.133	0.000	94	282138	25.0	31.9	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	429675	25.0	67.1	
57 Benzene	78	4.523	4.523	0.000	96	400392	25.0	24.3	
62 Trichloroethene	95	5.023	5.023	0.000	96	123584	25.0	26.2	
74 Toluene	92	5.998	5.998	0.000	98	246470	25.0	23.6	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	139853	25.0	27.8	
87 Chlorobenzene	112	7.120	7.120	0.000	96	302293	25.0	24.6	

QC Flag Legend
Processing Flags

Reagents:
8260 CORP mix_00259 Amount Added: 12.50 Units: uL
GAS CORP mix_00646 Amount Added: 12.50 Units: uL
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

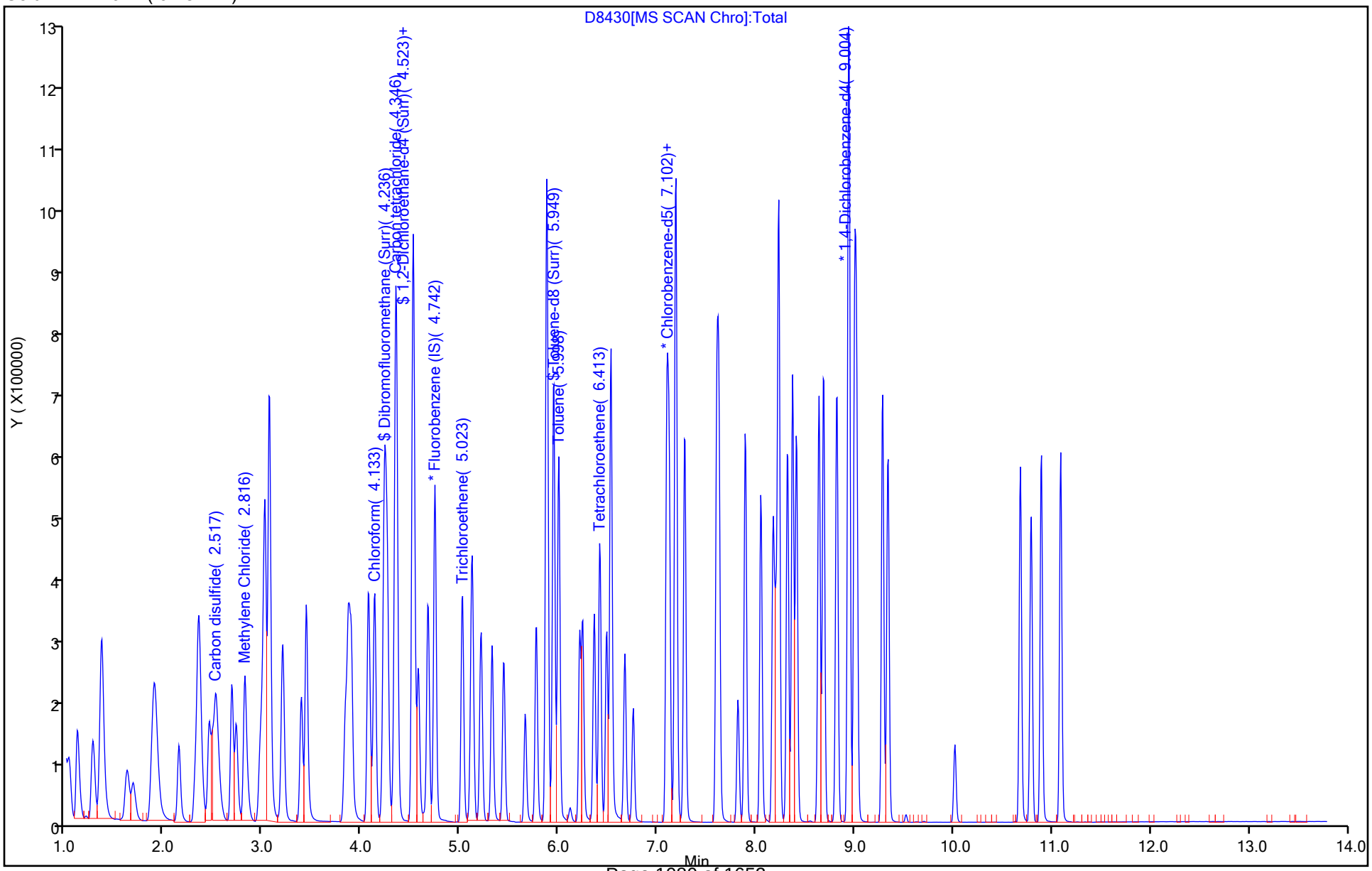
Report Date: 30-Oct-2024 10:43:03 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8430.d

Injection Date:	29-Oct-2024 22:40:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-14 MS			Worklist Smp#:	28
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	26
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8430.d
Lims ID: 480-224872-B-14 MS
Client ID:
Sample Type: MS
Inject. Date: 29-Oct-2024 22:40:30 ALS Bottle#: 26 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14 MS
Misc. Info.: 480-0120894-028
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:43:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	111.89
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.0	108.08
$ 5 Toluene-d8 (Surr)	25.0	25.6	102.51

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-18L-102424 MS | Lab Sample ID: 480-224872-41 MS

Matrix: Water | Lab File ID: D8402.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 11:55

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	960		40	16
75-15-0	Carbon disulfide	955		40	7.6
56-23-5	Carbon tetrachloride	1980		40	11
108-90-7	Chlorobenzene	979		40	30
67-66-3	Chloroform	1870		40	14
75-09-2	Methylene Chloride	1000		40	18
127-18-4	Tetrachloroethene	1090		40	14
108-88-3	Toluene	942		40	20
79-01-6	Trichloroethene	1080		40	18

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

Report Date: 29-Oct-2024 14:14:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8402.d
Lims ID: 480-224872-A-41 MS
Client ID: W-18L-102424
Sample Type: MS
Inject. Date: 29-Oct-2024 11:55:30 ALS Bottle#: 67 Worklist Smp#: 34
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-41 MS
Misc. Info.: 480-0120866-034
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:14:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:12

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	4.736	4.736	0.000	98	93624	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	192235	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	94	224031	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.000	94	162977	25.0	27.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	92196	25.0	27.0	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	469140	25.0	25.3	
26 Carbon disulfide	76	2.523	2.523	0.000	100	335644	25.0	23.9	
30 Methylene Chloride	84	2.810	2.810	0.000	96	119632	25.0	25.0	
50 Chloroform	83	4.126	4.126	0.000	95	418817	25.0	46.8	
55 Carbon tetrachloride	117	4.340	4.340	0.000	98	321630	25.0	49.6	
57 Benzene	78	4.517	4.517	0.000	96	401052	25.0	24.0	
62 Trichloroethene	95	5.016	5.016	0.000	96	128705	25.0	26.9	
74 Toluene	92	5.992	5.992	0.000	98	249479	25.0	23.6	
81 Tetrachloroethene	166	6.413	6.413	-0.001	96	139422	25.0	27.2	
87 Chlorobenzene	112	7.114	7.114	0.000	95	304972	25.0	24.5	

QC Flag Legend
Processing Flags

Reagents:
8260 CORP mix_00259 Amount Added: 12.50 Units: uL
GAS CORP mix_00646 Amount Added: 12.50 Units: uL
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

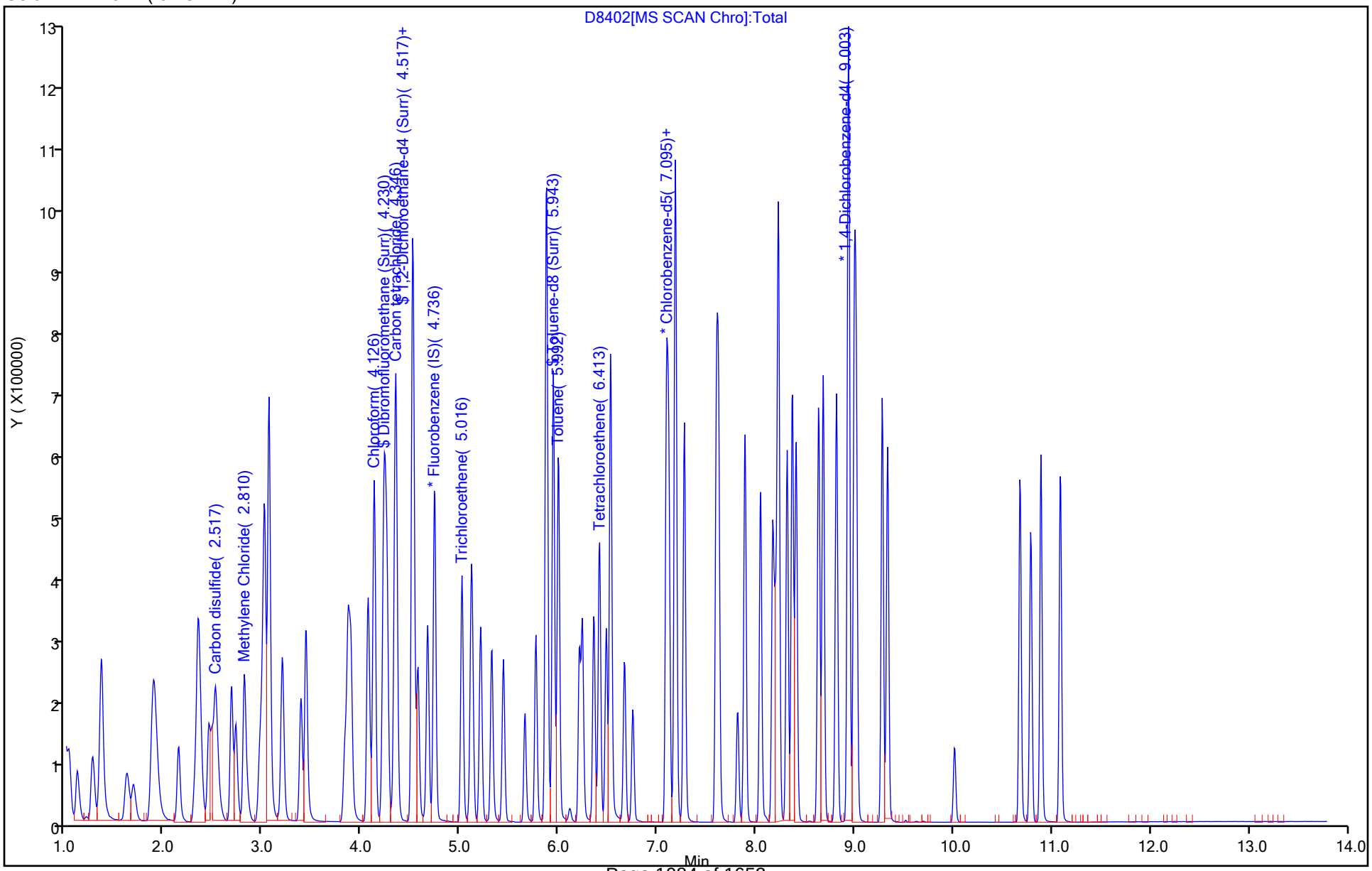
Report Date: 29-Oct-2024 14:14:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8402.d

Injection Date:	29-Oct-2024 11:55:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-41 MS			Worklist Smp#:	34
Client ID:	W-18L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	67
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 29-Oct-2024 14:14:13 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8402.d				
Lims ID:	480-224872-A-41 MS				
Client ID:	W-18L-102424				
Sample Type:	MS				
Inject. Date:	29-Oct-2024 11:55:30	ALS Bottle#:	67	Worklist Smp#:	34
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Sample Info:	480-224872-A-41 MS				
Misc. Info.:	480-0120866-034				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Oct-2024 14:14:00	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.1	108.30
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.0	108.03
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-2-102324 MSD | Lab Sample ID: 480-224872-5 MSD

Matrix: Water | Lab File ID: D8366.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 22:38

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	26.7		1.0	0.41
75-15-0	Carbon disulfide	27.6		1.0	0.19
56-23-5	Carbon tetrachloride	86.9		1.0	0.27
108-90-7	Chlorobenzene	27.1		1.0	0.75
67-66-3	Chloroform	67.2		1.0	0.34
75-09-2	Methylene Chloride	30.6		1.0	0.44
127-18-4	Tetrachloroethene	33.1		1.0	0.36
108-88-3	Toluene	25.6		1.0	0.51
79-01-6	Trichloroethene	31.3		1.0	0.46

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
1868-53-7	Dibromofluoromethane (Surr)	113		75-123
2037-26-5	Toluene-d8 (Surr)	101		80-120

Report Date: 29-Oct-2024 13:59:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8366.d
Lims ID: 480-224872-A-5 MSD
Client ID: EW-2-102324
Sample Type: MSD
Inject. Date: 28-Oct-2024 22:38:30 ALS Bottle#: 31 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-5 MSD
Misc. Info.: 480-0120860-033
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:00

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	4.736	4.730	0.006	98	88172	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	186104	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.991	0.006	95	217486	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.254	4.254	0.006	94	159863	25.0	28.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.504	0.006	97	88561	25.0	27.5	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	455105	25.0	25.3	
26 Carbon disulfide	76	2.523	2.511	0.012	100	365446	25.0	27.6	
30 Methylene Chloride	84	2.810	2.804	0.006	96	136605	25.0	30.6	
50 Chloroform	83	4.126	4.120	0.006	95	566540	25.0	67.2	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	531052	25.0	86.9	
57 Benzene	78	4.517	4.511	0.006	97	420480	25.0	26.7	
62 Trichloroethene	95	5.016	5.010	0.006	96	140930	25.0	31.3	
74 Toluene	92	5.992	5.991	0.006	98	262666	25.0	25.6	
81 Tetrachloroethene	166	6.412	6.412	0.006	97	163874	25.0	33.1	
87 Chlorobenzene	112	7.114	7.114	0.006	98	326595	25.0	27.1	

QC Flag Legend
Processing Flags

Reagents:
8260 CORP mix_00259 Amount Added: 12.50 Units: uL
GAS CORP mix_00646 Amount Added: 12.50 Units: uL
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

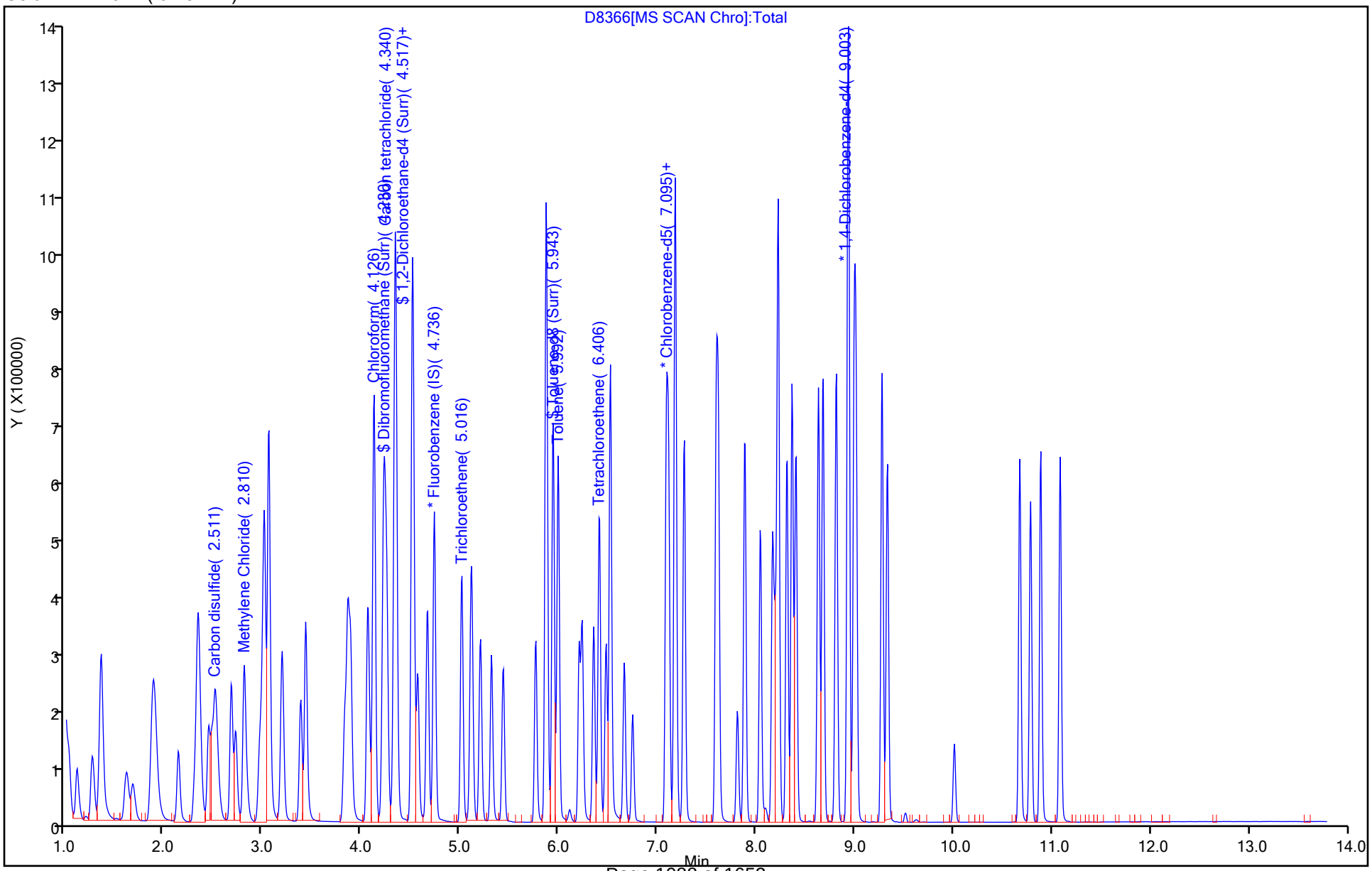
Report Date: 29-Oct-2024 13:59:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8366.d

Injection Date:	28-Oct-2024 22:38:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-5 MSD			Worklist Smp#:	33
Client ID:	EW-2-102324				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 29-Oct-2024 13:59:01 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8366.d
Lims ID: 480-224872-A-5 MSD
Client ID: EW-2-102324
Sample Type: MSD
Inject. Date: 28-Oct-2024 22:38:30 ALS Bottle#: 31 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-224872-A-5 MSD
Misc. Info.: 480-0120860-033
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.2	112.80
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.5	110.19
$ 5 Toluene-d8 (Surr)	25.0	25.3	101.36

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: EW-3-102324 MSD | Lab Sample ID: 480-224872-7 MSD

Matrix: Water | Lab File ID: D8368.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/28/2024 23:22

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.: 730076 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1270		50	21
75-15-0	Carbon disulfide	1470		50	9.5
56-23-5	Carbon tetrachloride	3430		50	14
108-90-7	Chlorobenzene	1270		50	38
67-66-3	Chloroform	2260		50	17
75-09-2	Methylene Chloride	1360		50	22
127-18-4	Tetrachloroethene	1390		50	18
108-88-3	Toluene	1250		50	26
79-01-6	Trichloroethene	1430		50	23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123
2037-26-5	Toluene-d8 (Surr)	105		80-120

Report Date: 29-Oct-2024 13:59:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8368.d
Lims ID: 480-224872-A-7 MSD
Client ID: EW-3-102324
Sample Type: MSD
Inject. Date: 28-Oct-2024 23:22:30 ALS Bottle#: 33 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 50.0000
Sample Info: 480-224872-A-7 MSD
Misc. Info.: 480-0120860-035
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 13:58:44 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:22

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	4.736	4.730	0.006	98	91612	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.083	0.006	87	183985	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.991	0.006	95	213664	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.255	4.254	0.006	94	165000	25.0	28.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.511	4.504	0.007	98	90661	25.0	27.1	
$ 5 Toluene-d8 (Surr)	98	5.943	5.942	0.006	94	464560	25.0	26.2	
26 Carbon disulfide	76	2.523	2.511	0.012	100	403842	25.0	29.3	
30 Methylene Chloride	84	2.810	2.804	0.006	97	126398	25.0	27.1	
50 Chloroform	83	4.126	4.120	0.006	95	395851	25.0	45.2	
55 Carbon tetrachloride	117	4.340	4.334	0.006	98	435322	25.0	68.6	
57 Benzene	78	4.517	4.511	0.006	97	414327	25.0	25.3	
62 Trichloroethene	95	5.017	5.010	0.007	96	133938	25.0	28.6	
74 Toluene	92	5.992	5.991	0.006	98	252827	25.0	24.9	
81 Tetrachloroethene	166	6.413	6.412	0.007	96	135975	25.0	27.8	
87 Chlorobenzene	112	7.114	7.114	0.006	95	302252	25.0	25.4	

QC Flag Legend
Processing Flags

Reagents:
8260 CORP mix_00259 Amount Added: 12.50 Units: uL
GAS CORP mix_00646 Amount Added: 12.50 Units: uL
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

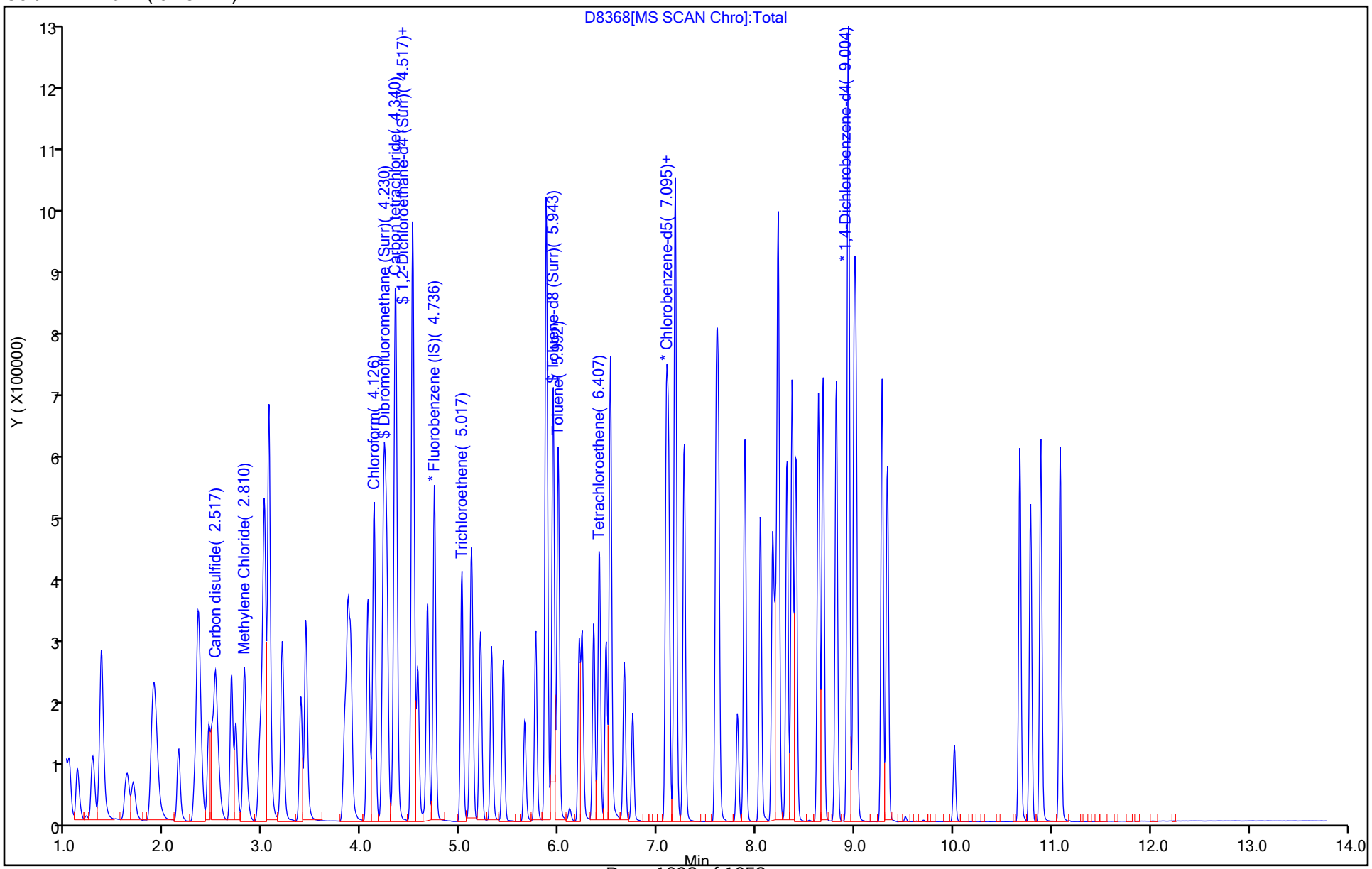
Report Date: 29-Oct-2024 13:59:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8368.d

Injection Date:	28-Oct-2024 23:22:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-7 MSD			Worklist Smp#:	35
Client ID:	EW-3-102324				
Purge Vol:	5.000 mL	Dil. Factor:	50.0000	ALS Bottle#:	33
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 29-Oct-2024 13:59:23 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D8368.d				
Lims ID:	480-224872-A-7 MSD				
Client ID:	EW-3-102324				
Sample Type:	MSD				
Inject. Date:	28-Oct-2024 23:22:30	ALS Bottle#:	33	Worklist Smp#:	35
Purge Vol:	5.000 mL	Dil. Factor:	50.0000		
Sample Info:	480-224872-A-7 MSD				
Misc. Info.:	480-0120860-035				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120860.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Oct-2024 13:58:44	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: R3QB Date: 29-Oct-2024 13:59:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	28.0	112.05
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.1	108.56
$ 5 Toluene-d8 (Surr)	25.0	26.2	104.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: LR-66-102324 MSD | Lab Sample ID: 480-224872-14 MSD

Matrix: Water | Lab File ID: D8431.d

Analysis Method: 8260C | Date Collected: 10/23/2024 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 23:02

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730274 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	995		40	16
75-15-0	Carbon disulfide	1040		40	7.6
56-23-5	Carbon tetrachloride	2790		40	11
108-90-7	Chlorobenzene	1020		40	30
67-66-3	Chloroform	1300		40	14
75-09-2	Methylene Chloride	1040		40	18
127-18-4	Tetrachloroethene	1170		40	14
108-88-3	Toluene	984		40	20
79-01-6	Trichloroethene	1070		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Report Date: 30-Oct-2024 10:43:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8431.d
Lims ID: 480-224872-B-14 MSD
Client ID:
Sample Type: MSD
Inject. Date: 29-Oct-2024 23:02:30 ALS Bottle#: 27 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14 MSD
Misc. Info.: 480-0120894-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:43:14

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	4.742	4.742	0.000	98	91847	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.095	7.095	0.000	87	182913	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	95	215774	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.261	0.000	94	162052	25.0	27.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.517	4.517	0.000	98	90383	25.0	27.0	
$ 5 Toluene-d8 (Surr)	98	5.949	5.949	0.000	94	451392	25.0	25.6	
26 Carbon disulfide	76	2.523	2.541	-0.018	100	358034	25.0	25.9	
30 Methylene Chloride	84	2.816	2.822	-0.006	96	121453	25.0	26.0	
50 Chloroform	83	4.133	4.133	0.000	95	284681	25.0	32.4	
55 Carbon tetrachloride	117	4.346	4.346	0.000	97	443054	25.0	69.6	
57 Benzene	78	4.523	4.523	0.000	97	407658	25.0	24.9	
62 Trichloroethene	95	5.023	5.023	0.000	96	125471	25.0	26.7	
74 Toluene	92	5.998	5.998	0.000	98	247904	25.0	24.6	
81 Tetrachloroethene	166	6.413	6.413	0.000	97	142453	25.0	29.3	
87 Chlorobenzene	112	7.120	7.120	0.000	96	301235	25.0	25.4	

QC Flag Legend
Processing Flags

Reagents:

8260 CORP mix_00259	Amount Added: 12.50	Units: uL	
GAS CORP mix_00646	Amount Added: 12.50	Units: uL	
D 8260 IS/SUR_00092	Amount Added: 1.00	Units: uL	Run Reagent

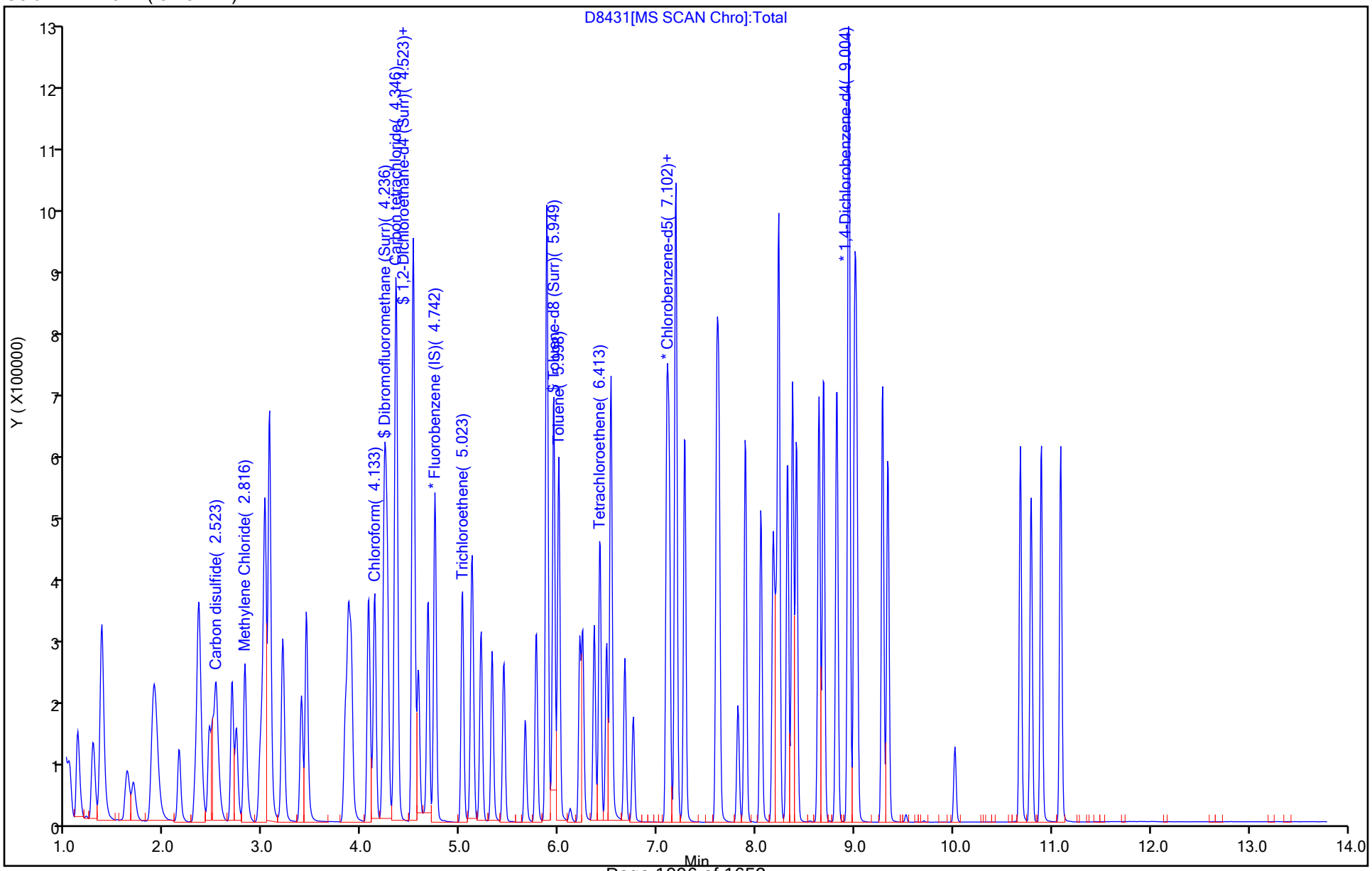
Report Date: 30-Oct-2024 10:43:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8431.d

Injection Date:	29-Oct-2024 23:02:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-B-14 MSD			Worklist Smp#:	29
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	27
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 30-Oct-2024 10:43:15 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D8431.d
Lims ID: 480-224872-B-14 MSD
Client ID:
Sample Type: MSD
Inject. Date: 29-Oct-2024 23:02:30 ALS Bottle#: 27 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-B-14 MSD
Misc. Info.: 480-0120894-029
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241029-120894.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 30-Oct-2024 10:42:39 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1639

First Level Reviewer: R3QB Date: 30-Oct-2024 10:43:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.4	109.77
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	27.0	107.95
$ 5 Toluene-d8 (Surr)	25.0	25.6	102.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: W-18L-102424 MSD | Lab Sample ID: 480-224872-41 MSD

Matrix: Water | Lab File ID: D8403.d

Analysis Method: 8260C | Date Collected: 10/24/2024 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/29/2024 12:17

Soil Aliquot Vol: | Dilution Factor: 40

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

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

% Moisture: % Solids: | Level: (low/med) Low

Analysis Batch No.: 730119 | Units: ug/L

Preparation Batch No.: | Instrument ID: HP5975D

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	995		40	16
75-15-0	Carbon disulfide	1020		40	7.6
56-23-5	Carbon tetrachloride	2110		40	11
108-90-7	Chlorobenzene	984		40	30
67-66-3	Chloroform	1920		40	14
75-09-2	Methylene Chloride	1050		40	18
127-18-4	Tetrachloroethene	1140		40	14
108-88-3	Toluene	974		40	20
79-01-6	Trichloroethene	1130		40	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123
2037-26-5	Toluene-d8 (Surr)	102		80-120

Report Date: 29-Oct-2024 14:14:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8403.d
Lims ID: 480-224872-A-41 MSD
Client ID: W-18L-102424
Sample Type: MSD
Inject. Date: 29-Oct-2024 12:17:30 ALS Bottle#: 68 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 40.0000
Sample Info: 480-224872-A-41 MSD
Misc. Info.: 480-0120866-035
Operator ID: AK Instrument ID: HP5975D

Method: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Oct-2024 14:14:00 Calib Date: 20-Sep-2024 01:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1663

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:22

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	4.736	4.736	0.000	98	91263	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.089	7.089	0.000	87	187502	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.997	8.997	0.000	94	217008	25.0	25.0	
$ 148 Dibromofluoromethane (Surr)	113	4.261	4.254	0.007	94	161879	25.0	27.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.510	4.510	0.000	98	89604	25.0	26.9	
$ 5 Toluene-d8 (Surr)	98	5.943	5.943	0.000	94	460811	25.0	25.5	
26 Carbon disulfide	76	2.523	2.523	0.000	100	350135	25.0	25.5	
30 Methylene Chloride	84	2.816	2.810	0.006	97	121521	25.0	26.1	
50 Chloroform	83	4.126	4.126	0.000	94	418187	25.0	47.9	
55 Carbon tetrachloride	117	4.340	4.340	0.000	97	333024	25.0	52.7	
57 Benzene	78	4.517	4.517	0.000	98	405265	25.0	24.9	
62 Trichloroethene	95	5.016	5.016	0.000	96	131893	25.0	28.3	
74 Toluene	92	5.998	5.992	0.006	98	251447	25.0	24.3	
81 Tetrachloroethene	166	6.413	6.413	0.000	96	142689	25.0	28.6	
87 Chlorobenzene	112	7.114	7.114	0.000	95	298960	25.0	24.6	

QC Flag Legend
Processing Flags

Reagents:
8260 CORP mix_00259 Amount Added: 12.50 Units: uL
GAS CORP mix_00646 Amount Added: 12.50 Units: uL
D 8260 IS/SUR_00092 Amount Added: 1.00 Units: uL Run Reagent

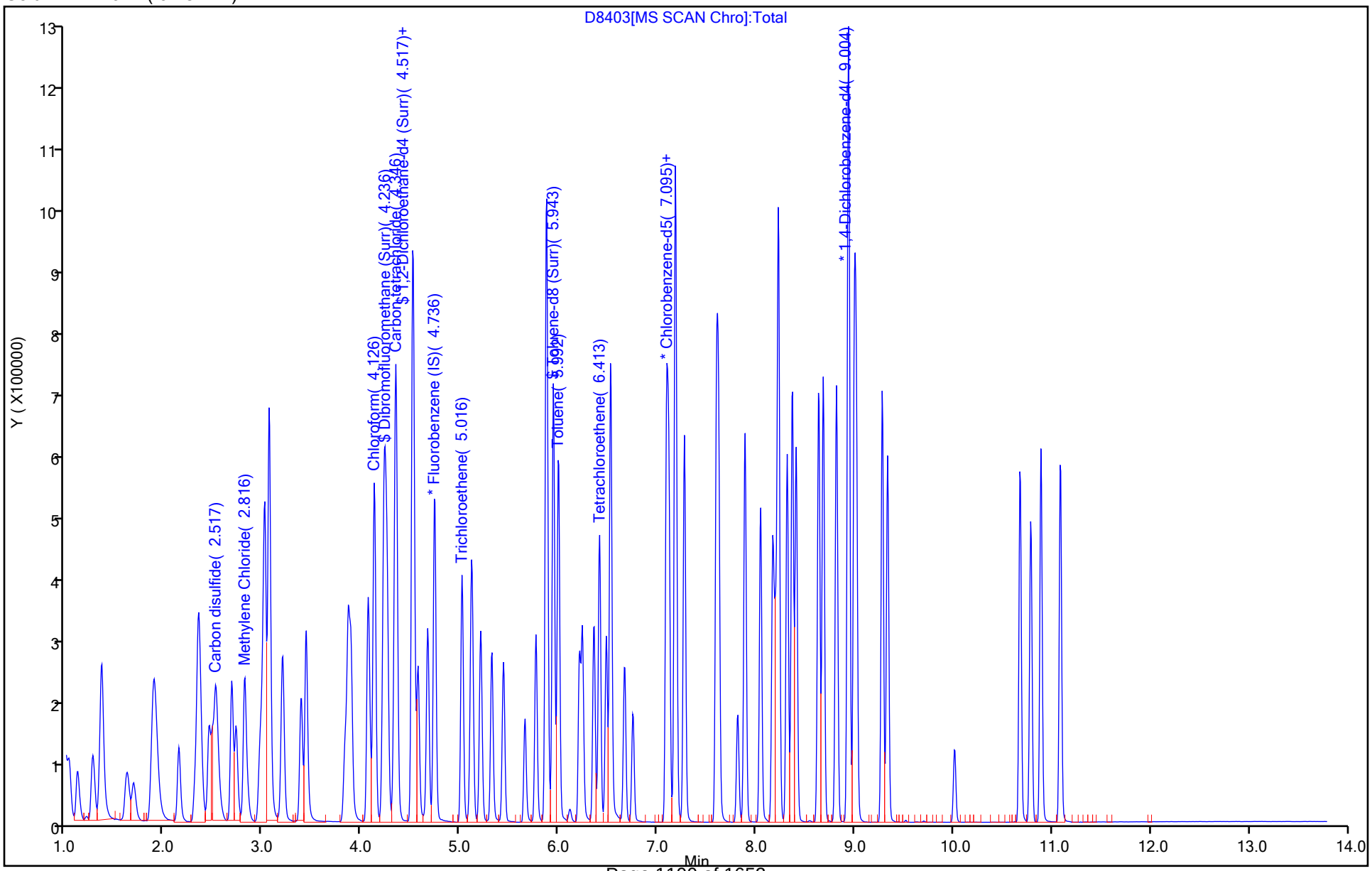
Report Date: 29-Oct-2024 14:14:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8403.d

Injection Date:	29-Oct-2024 12:17:30	Instrument ID:	HP5975D	Operator ID:	AK
Lims ID:	480-224872-A-41 MSD			Worklist Smp#:	35
Client ID:	W-18L-102424				
Purge Vol:	5.000 mL	Dil. Factor:	40.0000	ALS Bottle#:	68
Method:	D-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Report Date: 29-Oct-2024 14:14:22 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D8403.d				
Lims ID:	480-224872-A-41 MSD				
Client ID:	W-18L-102424				
Sample Type:	MSD				
Inject. Date:	29-Oct-2024 12:17:30	ALS Bottle#:	68	Worklist Smp#:	35
Purge Vol:	5.000 mL	Dil. Factor:	40.0000		
Sample Info:	480-224872-A-41 MSD				
Misc. Info.:	480-0120866-035				
Operator ID:	AK	Instrument ID:	HP5975D		
Method:	\\chromfs\Buffalo\ChromData\HP5975D\20241028-120866.b\D-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	29-Oct-2024 14:14:00	Calib Date:	20-Sep-2024 01:02:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5975D\20240919-120124.b\D6860.d				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1663				

First Level Reviewer: R3QB Date: 29-Oct-2024 14:14:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 148 Dibromofluoromethane (Surr)	25.0	27.6	110.35
$ 4 1,2-Dichloroethane-d4 (Surr)	25.0	26.9	107.71
$ 5 Toluene-d8 (Surr)	25.0	25.5	101.87

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: HP5975D Start Date: 09/19/2024 14:41

Analysis Batch Number: 725605 End Date: 09/20/2024 01:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-725605/11		09/19/2024 14:41	1	D6832.d	ZB-624 (20) 0.18(mm)
IC 480-725605/16		09/19/2024 16:33	1	D6837.d	ZB-624 (20) 0.18(mm)
IC 480-725605/17		09/19/2024 16:55	1	D6838.d	ZB-624 (20) 0.18(mm)
ICIS 480-725605/18		09/19/2024 17:18	1	D6839.d	ZB-624 (20) 0.18(mm)
IC 480-725605/19		09/19/2024 17:40	1	D6840.d	ZB-624 (20) 0.18(mm)
IC 480-725605/20		09/19/2024 18:02	1	D6841.d	ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		09/19/2024 18:46	1		ZB-624 (20) 0.18(mm)
IC 480-725605/25		09/19/2024 19:52	1	D6846.d	ZB-624 (20) 0.18(mm)
IC 480-725605/26		09/19/2024 20:15	1	D6847.d	ZB-624 (20) 0.18(mm)
IC 480-725605/27		09/19/2024 20:37	1	D6848.d	ZB-624 (20) 0.18(mm)
IC 480-725605/28		09/19/2024 20:59	1	D6849.d	ZB-624 (20) 0.18(mm)
IC 480-725605/29		09/19/2024 21:21	1	D6850.d	ZB-624 (20) 0.18(mm)
IC 480-725605/30		09/19/2024 21:43	1	D6851.d	ZB-624 (20) 0.18(mm)
IC 480-725605/31		09/19/2024 22:05	1	D6852.d	ZB-624 (20) 0.18(mm)
ZZZZZ (QC)		09/19/2024 22:49	1		ZB-624 (20) 0.18(mm)
ICV 480-725605/34		09/19/2024 23:11	1	D6855.d	ZB-624 (20) 0.18(mm)
ICV 480-725605/35		09/19/2024 23:34	1	D6856.d	ZB-624 (20) 0.18(mm)
IC 480-725605/47		09/20/2024 00:18	1	D6858.d	ZB-624 (20) 0.18(mm)
IC 480-725605/48		09/20/2024 00:40	1	D6859.d	ZB-624 (20) 0.18(mm)
IC 480-725605/49		09/20/2024 01:02	1	D6860.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: HP5975D Start Date: 10/28/2024 11:31

Analysis Batch Number: 730076 End Date: 10/28/2024 23:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730076/3		10/28/2024 11:31	1	D8336.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730076/4		10/28/2024 11:53	1	D8337.d	ZB-624 (20) 0.18(mm)
CCV 480-730076/5		10/28/2024 12:16	1		ZB-624 (20) 0.18(mm)
LCS 480-730076/6		10/28/2024 12:38	1	D8339.d	ZB-624 (20) 0.18(mm)
MB 480-730076/8		10/28/2024 13:22	1	D8341.d	ZB-624 (20) 0.18(mm)
480-224872-1	INF-102324	10/28/2024 13:47	40	D8342.d	ZB-624 (20) 0.18(mm)
480-224872-2	CBT-102324	10/28/2024 14:08	1	D8343.d	ZB-624 (20) 0.18(mm)
480-224872-3	EFF-102324	10/28/2024 14:30	1	D8344.d	ZB-624 (20) 0.18(mm)
480-224872-4	EW-1R-102324	10/28/2024 14:52	1000	D8345.d	ZB-624 (20) 0.18(mm)
480-224872-5	EW-2-102324	10/28/2024 15:16	1	D8346.d	ZB-624 (20) 0.18(mm)
480-224872-6	EW-2-102324-DUP	10/28/2024 15:38	1	D8347.d	ZB-624 (20) 0.18(mm)
480-224872-7	EW-3-102324	10/28/2024 16:00	50	D8348.d	ZB-624 (20) 0.18(mm)
480-224872-8	EW-3-102324-DUP	10/28/2024 16:22	50	D8349.d	ZB-624 (20) 0.18(mm)
480-224872-9	EW-4-102324	10/28/2024 16:44	1	D8350.d	ZB-624 (20) 0.18(mm)
480-224872-10	EW-5-102324	10/28/2024 17:06	4	D8351.d	ZB-624 (20) 0.18(mm)
480-224872-11	EW-6-102324	10/28/2024 17:28	200	D8352.d	ZB-624 (20) 0.18(mm)
480-224872-12	EW-7-102324	10/28/2024 17:50	100	D8353.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/28/2024 18:12	4		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/28/2024 18:35	80		ZB-624 (20) 0.18(mm)
480-224872-15	OW-3-102324	10/28/2024 18:57	100	D8356.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/28/2024 19:19	200		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/28/2024 19:41	2		ZB-624 (20) 0.18(mm)
480-224872-18	R-67-102324	10/28/2024 20:03	1000	D8359.d	ZB-624 (20) 0.18(mm)
480-224872-19	W-67-102324	10/28/2024 20:25	40	D8360.d	ZB-624 (20) 0.18(mm)
480-224872-20	LR-67-102324	10/28/2024 20:47	200	D8361.d	ZB-624 (20) 0.18(mm)
480-224872-21	LR-48-102324	10/28/2024 21:09	1	D8362.d	ZB-624 (20) 0.18(mm)
480-224872-22	R-48-102324	10/28/2024 21:31	1	D8363.d	ZB-624 (20) 0.18(mm)
480-224872-23	W-19B-102324	10/28/2024 21:53	1	D8364.d	ZB-624 (20) 0.18(mm)
480-224872-5 MS	EW-2-102324 MS	10/28/2024 22:16	1	D8365.d	ZB-624 (20) 0.18(mm)
480-224872-5 MSD	EW-2-102324 MSD	10/28/2024 22:38	1	D8366.d	ZB-624 (20) 0.18(mm)
480-224872-7 MS	EW-3-102324 MS	10/28/2024 23:00	50	D8367.d	ZB-624 (20) 0.18(mm)
480-224872-7 MSD	EW-3-102324 MSD	10/28/2024 23:22	50	D8368.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: HP5975D Start Date: 10/29/2024 00:28

Analysis Batch Number: 730119 End Date: 10/29/2024 12:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730119/3		10/29/2024 00:28	1	D8371.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730119/4		10/29/2024 00:51	1	D8372.d	ZB-624 (20) 0.18(mm)
CCV 480-730119/5		10/29/2024 01:13	1		ZB-624 (20) 0.18(mm)
LCS 480-730119/6		10/29/2024 01:35	1	D8374.d	ZB-624 (20) 0.18(mm)
MB 480-730119/8		10/29/2024 02:19	1	D8376.d	ZB-624 (20) 0.18(mm)
480-224872-24	R-19-102324	10/29/2024 02:41	2	D8377.d	ZB-624 (20) 0.18(mm)
480-224872-25	LR-61-102424	10/29/2024 03:03	20	D8378.d	ZB-624 (20) 0.18(mm)
480-224872-26	LR-51-102424	10/29/2024 03:25	1	D8379.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 03:48	2		ZB-624 (20) 0.18(mm)
480-224872-28	R-68-102424	10/29/2024 04:10	10000	D8381.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 04:32	4		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 04:54	2		ZB-624 (20) 0.18(mm)
480-224872-31	R-16-102424	10/29/2024 05:16	20	D8384.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 05:38	4		ZB-624 (20) 0.18(mm)
480-224872-33	W-66-102424	10/29/2024 06:00	1	D8386.d	ZB-624 (20) 0.18(mm)
480-224872-34	W-66L-102424	10/29/2024 06:22	1	D8387.d	ZB-624 (20) 0.18(mm)
480-224872-35	LR-20-102424	10/29/2024 06:45	1	D8388.d	ZB-624 (20) 0.18(mm)
480-224872-36	W-20-102424	10/29/2024 07:07	2	D8389.d	ZB-624 (20) 0.18(mm)
480-224872-37	LR-49-102424	10/29/2024 07:29	1	D8390.d	ZB-624 (20) 0.18(mm)
480-224872-38	W-65-102424	10/29/2024 07:51	1	D8391.d	ZB-624 (20) 0.18(mm)
480-224872-39	W-23C-102424	10/29/2024 08:13	1	D8392.d	ZB-624 (20) 0.18(mm)
480-224872-40	W-70L-102424	10/29/2024 08:35	2	D8393.d	ZB-624 (20) 0.18(mm)
480-224872-41	W-18L-102424	10/29/2024 08:58	40	D8394.d	ZB-624 (20) 0.18(mm)
480-224872-42	W-18R-102424	10/29/2024 09:20	800	D8395.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 09:42	2		ZB-624 (20) 0.18(mm)
480-224872-44	R-60-102424	10/29/2024 10:04	1	D8397.d	ZB-624 (20) 0.18(mm)
480-224872-45	R-60-102424-DUP	10/29/2024 10:26	1	D8398.d	ZB-624 (20) 0.18(mm)
480-224872-46	R-80-102424	10/29/2024 10:48	100	D8399.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 11:11	40		ZB-624 (20) 0.18(mm)
480-224872-48	Trip Blank	10/29/2024 11:33	1	D8401.d	ZB-624 (20) 0.18(mm)
480-224872-41 MS	W-18L-102424 MS	10/29/2024 11:55	40	D8402.d	ZB-624 (20) 0.18(mm)
480-224872-41 MSD	W-18L-102424 MSD	10/29/2024 12:17	40	D8403.d	ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: HP5975D Start Date: 10/29/2024 12:57

Analysis Batch Number: 730274 End Date: 10/29/2024 23:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-730274/3		10/29/2024 12:57	1	D8405.d	ZB-624 (20) 0.18(mm)
CCVIS 480-730274/4		10/29/2024 13:26	1	D8406.d	ZB-624 (20) 0.18(mm)
CCV 480-730274/5		10/29/2024 13:49	1		ZB-624 (20) 0.18(mm)
LCS 480-730274/6		10/29/2024 14:11	1	D8408.d	ZB-624 (20) 0.18(mm)
MB 480-730274/8		10/29/2024 14:55	1	D8410.d	ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 15:29	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 15:54	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 16:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 16:37	1		ZB-624 (20) 0.18(mm)
ZZZZZ (Client)		10/29/2024 16:59	1		ZB-624 (20) 0.18(mm)
480-224872-2 DL	CBT-102324 DL	10/29/2024 17:30	2	D8416.d	ZB-624 (20) 0.18(mm)
480-224872-13	DPA-202-102324	10/29/2024 17:52	200	D8417.d	ZB-624 (20) 0.18(mm)
480-224872-14	LR-66-102324	10/29/2024 18:14	40	D8418.d	ZB-624 (20) 0.18(mm)
480-224872-15 DL	OW-3-102324 DL	10/29/2024 18:37	2000	D8419.d	ZB-624 (20) 0.18(mm)
480-224872-16	OW-5-102324	10/29/2024 18:59	200	D8420.d	ZB-624 (20) 0.18(mm)
480-224872-17	W-67L-102324	10/29/2024 19:21	1	D8421.d	ZB-624 (20) 0.18(mm)
480-224872-20 DL	LR-67-102324 DL	10/29/2024 19:43	800	D8422.d	ZB-624 (20) 0.18(mm)
480-224872-25 DL	LR-61-102424 DL	10/29/2024 20:05	80	D8423.d	ZB-624 (20) 0.18(mm)
480-224872-27	LR-50-102424	10/29/2024 20:27	1	D8424.d	ZB-624 (20) 0.18(mm)
480-224872-29	L-16-102424	10/29/2024 20:49	1	D8425.d	ZB-624 (20) 0.18(mm)
480-224872-30	W-16L-102424	10/29/2024 21:11	1	D8426.d	ZB-624 (20) 0.18(mm)
480-224872-32	W-16-102424	10/29/2024 21:33	1	D8427.d	ZB-624 (20) 0.18(mm)
480-224872-43	LR-62-102424	10/29/2024 21:55	1	D8428.d	ZB-624 (20) 0.18(mm)
480-224872-47	IR-80-102424	10/29/2024 22:18	4	D8429.d	ZB-624 (20) 0.18(mm)
480-224872-14 MS	LR-66-102324 MS	10/29/2024 22:40	40	D8430.d	ZB-624 (20) 0.18(mm)
480-224872-14 MSD	LR-66-102324 MSD	10/29/2024 23:02	40	D8431.d	ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Batch Number: 725605 Batch Start Date: 09/19/24 14:41 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	2 MTP 2019 00064	3 MTP 2019 00064	3_MCP_Add_WRK 00456	8260 CORP mix 00259
BFB 480-725605/11		8260C			1 uL	1 uL				
IC 480-725605/16		8260C			5 mL	5 mL				5 uL
IC 480-725605/17		8260C			5 mL	5 mL				5 uL
ICIS 480-725605/18		8260C			5 mL	5 mL				12.5 uL
IC 480-725605/19		8260C			5 mL	5 mL				25 uL
IC 480-725605/20		8260C			5 mL	5 mL				50 uL
IC 480-725605/25		8260C			5 mL	5 mL	0.4 uL	0.4 uL	0.4 uL	
IC 480-725605/26		8260C			5 mL	5 mL	1 uL	1 uL	1 uL	
IC 480-725605/27		8260C			5 mL	5 mL	5 uL	5 uL	5 uL	
IC 480-725605/28		8260C			5 mL	5 mL	5 uL	5 uL	5 uL	
IC 480-725605/29		8260C			5 mL	5 mL	12.5 uL	12.5 uL	12.5 uL	
IC 480-725605/30		8260C			5 mL	5 mL	25 uL	25 uL	25 uL	
IC 480-725605/31		8260C			5 mL	5 mL	50 uL	50 uL	50 uL	
ICV 480-725605/34		8260C			5 mL	5 mL				
ICV 480-725605/35		8260C			5 mL	5 mL			12.5 uL	
IC 480-725605/47		8260C			5 mL	5 mL				0.4 uL
IC 480-725605/48		8260C			5 mL	5 mL				1 uL
IC 480-725605/49		8260C			5 mL	5 mL				2 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	ADD CORP mix 00149	BFB_WRK 00165	D 8260 IS 00024	D 8260 IS/SUR 00092	GAS CORP mix 00641	SS 8260 CORP 00116
BFB 480-725605/11		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.: 480-224872-1

SDG No.:

Batch Number: 725605 Batch Start Date: 09/19/24 14:41 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	ADD CORP mix 00149	BFB_WRK 00165	D 8260 IS 00024	D 8260 IS/SUR 00092	GAS CORP mix 00641	SS 8260 CORP 00116
IC 480-725605/16		8260C						1 uL	5 uL	
IC 480-725605/17		8260C						1 uL	5 uL	
ICIS 480-725605/18		8260C						1 uL	12.5 uL	
IC 480-725605/19		8260C						1 uL	25 uL	
IC 480-725605/20		8260C						1 uL	50 uL	
IC 480-725605/25		8260C			0.4 uL		1 uL			
IC 480-725605/26		8260C			1 uL		1 uL			
IC 480-725605/27		8260C			5 uL		1 uL			
IC 480-725605/28		8260C			5 uL		1 uL			
IC 480-725605/29		8260C			12.5 uL		1 uL			
IC 480-725605/30		8260C			25 uL		1 uL			
IC 480-725605/31		8260C			50 uL		1 uL			
ICV 480-725605/34		8260C						1 uL		12.5 uL
ICV 480-725605/35		8260C						1 uL		
IC 480-725605/47		8260C						1 uL	0.4 uL	
IC 480-725605/48		8260C						1 uL	1 uL	
IC 480-725605/49		8260C						1 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SS ADD CORP 00093	SS GAS CORP 00594				
BFB 480-725605/11		8260C								
IC 480-725605/16		8260C								

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.: 480-224872-1

SDG No.:

Batch Number: 725605 Batch Start Date: 09/19/24 14:41 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SS ADD CORP 00093	SS GAS CORP 00594				
IC 480-725605/17		8260C								
ICIS 480-725605/18		8260C								
IC 480-725605/19		8260C								
IC 480-725605/20		8260C								
IC 480-725605/25		8260C								
IC 480-725605/26		8260C								
IC 480-725605/27		8260C								
IC 480-725605/28		8260C								
IC 480-725605/29		8260C								
IC 480-725605/30		8260C								
IC 480-725605/31		8260C								
ICV 480-725605/34		8260C				12.5 uL				
ICV 480-725605/35		8260C			12.5 uL					
IC 480-725605/47		8260C								
IC 480-725605/48		8260C								
IC 480-725605/49		8260C								

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.: 480-224872-1

SDG No.:

Batch Number: 730076 Batch Start Date: 10/28/24 11:31 Batch Analyst: Kiwan, Ahmad x

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 00166	D 8260 IS/SUR 00092
BFB 480-730076/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730076/4		8260C			5 mL	5 mL		12.5 uL		1 uL
LCS 480-730076/6		8260C			5 mL	5 mL		12.5 uL		1 uL
MB 480-730076/8		8260C			5 mL	5 mL				1 uL
480-224872-A-1	INF-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-2	CBT-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-F-3	EFF-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-4	EW-1R-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-5	EW-2-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-6	EW-2-102324-DUP	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-7	EW-3-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-8	EW-3-102324-DUP	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-C-9	EW-4-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-10	EW-5-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-11	EW-6-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-12	EW-7-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-15	OW-3-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-18	R-67-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-19	W-67-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-20	LR-67-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-21	LR-48-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-22	R-48-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-23	W-19B-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-5 MS	EW-2-102324	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-224872-A-5 MSD	EW-2-102324	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-224872-A-7 MS	EW-3-102324	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-224872-A-7 MSD	EW-3-102324	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 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.: 480-224872-1

SDG No.:

Batch Number: 730076 Batch Start Date: 10/28/24 11:31 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GAS CORP mix 00646	AnalysisComment				
BFB 480-730076/3		8260C								
CCVIS 480-730076/4		8260C			12.5 uL					
LCS 480-730076/6		8260C			12.5 uL					
MB 480-730076/8		8260C								
480-224872-A-1	INF-102324	8260C	Water	T		T				
480-224872-A-2	CBT-102324	8260C	Water	T		E FLAG				
480-224872-F-3	EFF-102324	8260C	Water	T						
480-224872-A-4	EW-1R-102324	8260C	Water	T		T				
480-224872-A-5	EW-2-102324	8260C	Water	T						
480-224872-A-6	EW-2-102324-DUP	8260C	Water	T						
480-224872-A-7	EW-3-102324	8260C	Water	T		T				
480-224872-A-8	EW-3-102324-DUP	8260C	Water	T		T				
480-224872-C-9	EW-4-102324	8260C	Water	T						
480-224872-A-10	EW-5-102324	8260C	Water	T						
480-224872-A-11	EW-6-102324	8260C	Water	T		T				
480-224872-A-12	EW-7-102324	8260C	Water	T		T				
480-224872-A-15	OW-3-102324	8260C	Water	T		E FLAG				
480-224872-A-18	R-67-102324	8260C	Water	T		T				
480-224872-A-19	W-67-102324	8260C	Water	T		T				
480-224872-A-20	LR-67-102324	8260C	Water	T		E FLAG				
480-224872-A-21	LR-48-102324	8260C	Water	T						
480-224872-A-22	R-48-102324	8260C	Water	T						
480-224872-A-23	W-19B-102324	8260C	Water	T						
480-224872-A-5 MS	EW-2-102324	8260C	Water	T	12.5 uL					
480-224872-A-5 MSD	EW-2-102324	8260C	Water	T	12.5 uL					
480-224872-A-7 MS	EW-3-102324	8260C	Water	T	12.5 uL					
480-224872-A-7 MSD	EW-3-102324	8260C	Water	T	12.5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Batch Number: 730076 Batch Start Date: 10/28/24 11:31 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

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.: 480-224872-1

SDG No.:

Batch Number: 730119 Batch Start Date: 10/29/24 00:28 Batch Analyst: Kiwan, Ahmad x

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 00166	D 8260 IS/SUR 00092
BFB 480-730119/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730119/4		8260C			5 mL	5 mL		12.5 uL		1 uL
LCS 480-730119/6		8260C			5 mL	5 mL		12.5 uL		1 uL
MB 480-730119/8		8260C			5 mL	5 mL				1 uL
480-224872-A-24	R-19-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-25	LR-61-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-26	LR-51-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-28	R-68-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-31	R-16-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-33	W-66-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-34	W-66L-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-35	LR-20-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-36	W-20-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-37	LR-49-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-38	W-65-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-39	W-23C-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-40	W-70L-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-41	W-18L-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-42	W-18R-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-44	R-60-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-45	R-60-102424-DUP	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-46	R-80-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-48	Trip Blank	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-A-41 MS	W-18L-102424	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-224872-A-41 MSD	W-18L-102424	8260C	Water	T	5 mL	5 mL	<2 SU	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GAS CORP mix 00646	AnalysisComment				

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.: 480-224872-1

SDG No.:

Batch Number: 730119 Batch Start Date: 10/29/24 00:28 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GAS CORP mix 00646	AnalysisComment				
BFB 480-730119/3		8260C								
CCVIS 480-730119/4		8260C			12.5 uL					
LCS 480-730119/6		8260C			12.5 uL					
MB 480-730119/8		8260C								
480-224872-A-24	R-19-102324	8260C	Water	T		F				
480-224872-A-25	LR-61-102424	8260C	Water	T		E FLAG				
480-224872-A-26	LR-51-102424	8260C	Water	T						
480-224872-A-28	R-68-102424	8260C	Water	T		T				
480-224872-A-31	R-16-102424	8260C	Water	T		F				
480-224872-A-33	W-66-102424	8260C	Water	T						
480-224872-A-34	W-66L-102424	8260C	Water	T						
480-224872-A-35	LR-20-102424	8260C	Water	T						
480-224872-A-36	W-20-102424	8260C	Water	T		F				
480-224872-A-37	LR-49-102424	8260C	Water	T						
480-224872-A-38	W-65-102424	8260C	Water	T						
480-224872-A-39	W-23C-102424	8260C	Water	T						
480-224872-A-40	W-70L-102424	8260C	Water	T		F				
480-224872-A-41	W-18L-102424	8260C	Water	T		T				
480-224872-A-42	W-18R-102424	8260C	Water	T		T				
480-224872-A-44	R-60-102424	8260C	Water	T						
480-224872-A-45	R-60-102424-DUP	8260C	Water	T						
480-224872-A-46	R-80-102424	8260C	Water	T		T				
480-224872-A-48	Trip Blank	8260C	Water	T						
480-224872-A-41 MS	W-18L-102424	8260C	Water	T	12.5 uL					
480-224872-A-41 MSD	W-18L-102424	8260C	Water	T	12.5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Batch Number: 730119 Batch Start Date: 10/29/24 00:28 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

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.: 480-224872-1

SDG No.:

Batch Number: 730274 Batch Start Date: 10/29/24 12:57 Batch Analyst: Kiwan, Ahmad x

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 00166	D 8260 IS/SUR 00092
BFB 480-730274/3		8260C			1 uL	1 uL			1 uL	
CCVIS 480-730274/4		8260C			5 mL	5 mL		12.5 uL		1 uL
LCS 480-730274/6		8260C			5 mL	5 mL		12.5 uL		1 uL
MB 480-730274/8		8260C			5 mL	5 mL				1 uL
480-224872-B-2	CBT-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-13	DPA-202-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-14	LR-66-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-15	OW-3-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-16	OW-5-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-17	W-67L-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-20	LR-67-102324	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-25	LR-61-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-27	LR-50-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-29	L-16-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-30	W-16L-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-32	W-16-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-43	LR-62-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-47	IR-80-102424	8260C	Water	T	5 mL	5 mL	<2 SU			1 uL
480-224872-B-14 MS	LR-66-102324	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		1 uL
480-224872-B-14 MSD	LR-66-102324	8260C		T	5 mL	5 mL	<2 SU	12.5 uL		1 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GAS CORP mix 00646	AnalysisComment				
BFB 480-730274/3		8260C								
CCVIS 480-730274/4		8260C			12.5 uL					
LCS 480-730274/6		8260C			12.5 uL					
MB 480-730274/8		8260C								

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.: 480-224872-1

SDG No.:

Batch Number: 730274 Batch Start Date: 10/29/24 12:57 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GAS CORP mix 00646	AnalysisComment				
480-224872-B-2	CBT-102324	8260C	Water	T		T				
480-224872-B-13	DPA-202-102324	8260C	Water	T		T				
480-224872-B-14	LR-66-102324	8260C	Water	T		T				
480-224872-B-15	OW-3-102324	8260C	Water	T		T				
480-224872-B-16	OW-5-102324	8260C	Water	T		T				
480-224872-B-17	W-67L-102324	8260C	Water	T						
480-224872-B-20	LR-67-102324	8260C	Water	T		T				
480-224872-B-25	LR-61-102424	8260C	Water	T		T				
480-224872-B-27	LR-50-102424	8260C	Water	T						
480-224872-B-29	L-16-102424	8260C	Water	T						
480-224872-B-30	W-16L-102424	8260C	Water	T						
480-224872-B-32	W-16-102424	8260C	Water	T						
480-224872-B-43	LR-62-102424	8260C	Water	T						
480-224872-B-47	IR-80-102424	8260C	Water	T		T				
480-224872-B-14 MS	LR-66-102324	8260C		T	12.5 uL					
480-224872-B-14 MSD	LR-66-102324	8260C		T	12.5 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.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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 #
EFF-102324	480-224872-3	66	50	102	91	82	97
	MB 480-730235/1-A	58	43	83	71	70	93
	LCS 480-730235/2-A	62	51	89	81	82	82
	LCSD 480-730235/3-A	71	56	97	87	90	88

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	24-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	29-129
FBP = 2-Fluorobiphenyl	53-126
TBP = 2,4,6-Tribromophenol (Surr)	25-144
TPHd14 = p-Terphenyl-d14 (Surr)	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.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04609.D

Lab ID: LCS 480-730235/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dichlorophenol	32.0	26.1	81	63-120	
Hexachloroethane	32.0	23.5	74	33-120	
Naphthalene	32.0	23.6	74	57-120	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Matrix: Water Level: Low Lab File ID: Y04610.D

Lab ID: LCSD 480-730235/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dichlorophenol	32.0	27.9	87	7	19	63-120	
Hexachloroethane	32.0	27.5	86	15	46	33-120	
Naphthalene	32.0	29.8	93	23	29	57-120	

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.: 480-224872-1

SDG No.:

Lab File ID: Y04608.D Lab Sample ID: MB 480-730235/1-A

Matrix: Water Date Extracted: 10/29/2024 09:26

Instrument ID: HP5973Y Date Analyzed: 10/30/2024 13:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-730235/2-A	Y04609.D	10/30/2024 13:29
	LCSD 480-730235/3-A	Y04610.D	10/30/2024 13:57
EFF-102324	480-224872-3	Y04611.D	10/30/2024 14:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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.: 480-224872-1

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
	MB 480-730235/1-A	Y04608.D	10/30/2024	13:02
	LCS 480-730235/2-A	Y04609.D	10/30/2024	13:29
	LCSD 480-730235/3-A	Y04610.D	10/30/2024	13:57
EFF-102324	480-224872-3	Y04611.D	10/30/2024	14:24

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

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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 480-730403/3		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.: 480-224872-1

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 480-730403/3		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.: 480-224872-1

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						
MB 480-730235/1-A		149113	5.88	565961	7.09	322672	8.65
LCS 480-730235/2-A		153796	5.89	567784	7.09	324356	8.65
LCSD 480-730235/3-A		143072	5.89	542422	7.09	317659	8.65
480-224872-3	EFF-102324	149363	5.89	566111	7.08	315492	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.: 480-224872-1

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						
MB 480-730235/1-A		541349	9.93	438085	12.77	487694	14.46
LCS 480-730235/2-A		551534	9.93	464163	12.78	523633	14.47
LCSD 480-730235/3-A		505686	9.93	446242	12.78	509825	14.46
480-224872-3	EFF-102324	528041	9.92	439836	12.78	484961	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.: 480-224872-1

SDG No.:

Client Sample ID: EFF-102324 | Lab Sample ID: 480-224872-3

Matrix: Water | Lab File ID: Y04611.D

Analysis Method: 8270D | Date Collected: 10/23/2024 11:05

Extract. Method: 3510C | Date Extracted: 10/29/2024 09:26

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 14:24

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.: 730403 | Units: ug/L

Preparation Batch No.: 730235 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-83-2	2,4-Dichlorophenol	0.51	U	5.0	0.51
67-72-1	Hexachloroethane	0.59	U	5.0	0.59
91-20-3	Naphthalene	0.76	U	5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	82		25-144
321-60-8	2-Fluorobiphenyl	91		53-126
367-12-4	2-Fluorophenol (Surr)	66		24-120
4165-60-0	Nitrobenzene-d5 (Surr)	102		29-129
4165-62-2	Phenol-d5 (Surr)	50		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	97		33-132

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04611.D
Lims ID: 480-224872-A-3-A
Client ID: EFF-102324
Sample Type: Client
Inject. Date: 30-Oct-2024 14:24:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-012
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 16:04:41

	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	96	149363	4.00	
*	2 Naphthalene-d8	136	7.084	7.086	-0.002	99	566111	4.00	
*	3 Acenaphthene-d10	164	8.649	8.651	-0.002	95	315492	4.00	
*	4 Phenanthrene-d10	188	9.924	9.926	-0.002	97	528041	4.00	
*	5 Chrysene-d12	240	12.775	12.777	-0.002	99	439836	4.00	
*	6 Perylene-d12	264	14.464	14.460	0.004	97	484961	4.00	
$	7 2-Fluorophenol	112	4.666	4.638	0.028	92	244093	5.30	
$	8 Phenol-d5	99	5.525	5.521	0.004	88	229367	4.03	
$	9 Nitrobenzene-d5	82	6.408	6.410	-0.002	97	443880	8.14	
$	10 2-Fluorobiphenyl	172	8.033	8.035	-0.002	98	790172	7.29	
$	11 2,4,6-Tribromophenol	330	9.331	9.327	0.004	80	85922	6.56	
$	12 p-Terphenyl-d14	244	11.483	11.485	-0.002	97	921454	7.73	
	58 Hexachloroethane	117		6.375				ND	
	72 2,4-Dichlorophenol	162		6.962				ND	
	74 Naphthalene	128		7.110				ND	

QC Flag Legend
Processing Flags

Reagents:
MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

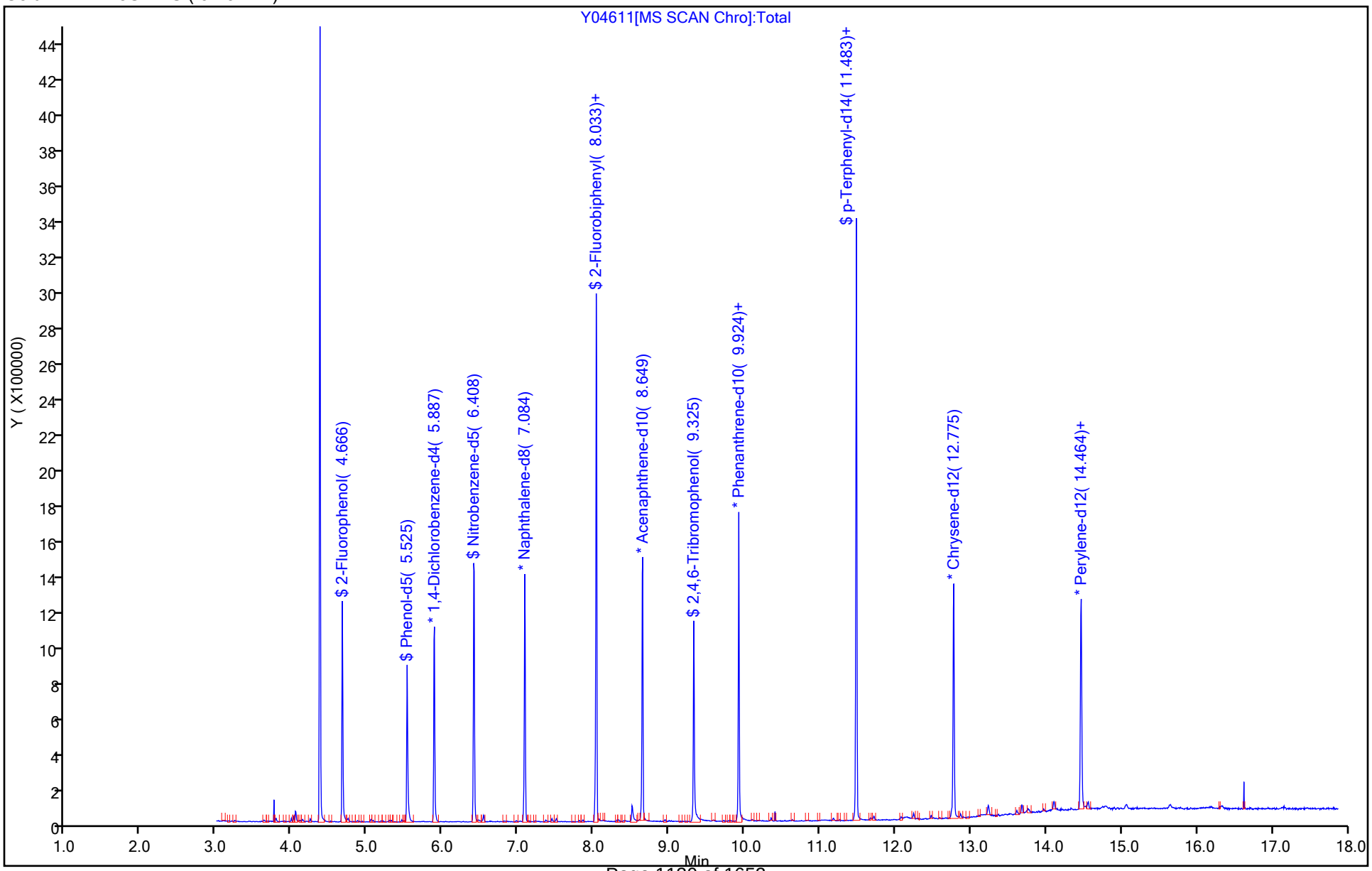
Report Date: 30-Oct-2024 16:07:08 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04611.D

Injection Date:	30-Oct-2024 14:24:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	480-224872-A-3-A	Lab Sample ID:	480-224872-3	Worklist Smp#:	12
Client ID:	EFF-102324				
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
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\Y04611.D
Lims ID: 480-224872-A-3-A
Client ID: EFF-102324
Sample Type: Client
Inject. Date: 30-Oct-2024 14:24:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-012
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 16:04:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.30	66.30
$ 8 Phenol-d5	8.00	4.03	50.43
$ 9 Nitrobenzene-d5	8.00	8.14	101.81
$ 10 2-Fluorobiphenyl	8.00	7.29	91.09
$ 11 2,4,6-Tribromophenol	8.00	6.56	81.96
$ 12 p-Terphenyl-d14	8.00	7.73	96.60

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Buffalo Job No.: 480-224872-1 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.: 480-224872-1 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.: 480-224872-1 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.: 480-224872-1 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.: 480-224872-1 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.: 480-224872-1 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 (Surr)	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 (Surr)	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 (Surr)	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 (Surr)	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 (Surr)	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.: 480-224872-1 | 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.: 480-224872-1 | 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.: 480-224872-1 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.: 480-224872-1 | 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.: 480-224872-1 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 (Surr)	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 (Surr)	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 (Surr)	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 (Surr)	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 (Surr)	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.: 480-224872-1 | 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.: 480-224872-1 | 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.: 480-224872-1 | 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.: 480-224872-1 | 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.: 480-224872-1 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 (Surr)	0.8	-1.5 1.8	-5.0	1.9	-4.0	6.1	30	30 30	30	30	30	30
Phenol-d5 (Surr)	0.9	-0.9 -0.3	-3.9	1.5	-1.0	3.7	30	30 30	30	30	30	30
Nitrobenzene-d5 (Surr)	-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 (Surr)	6.4	2.5 3.1	-3.0	-2.9	-3.4	-2.7	30	30 30	30	30	30	30
p-Terphenyl-d14 (Surr)	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

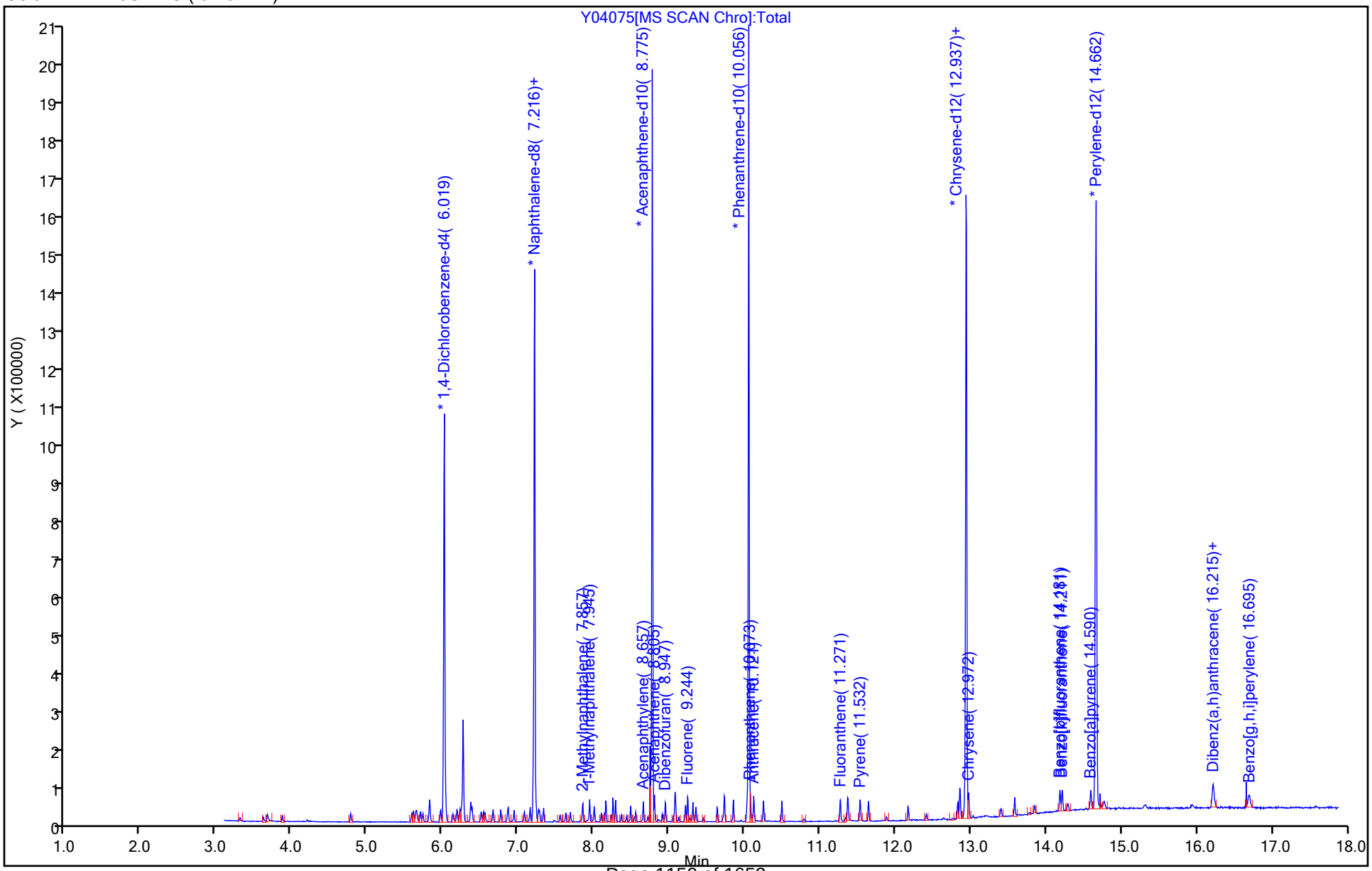
Report Date: 11-Oct-2024 11:30:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

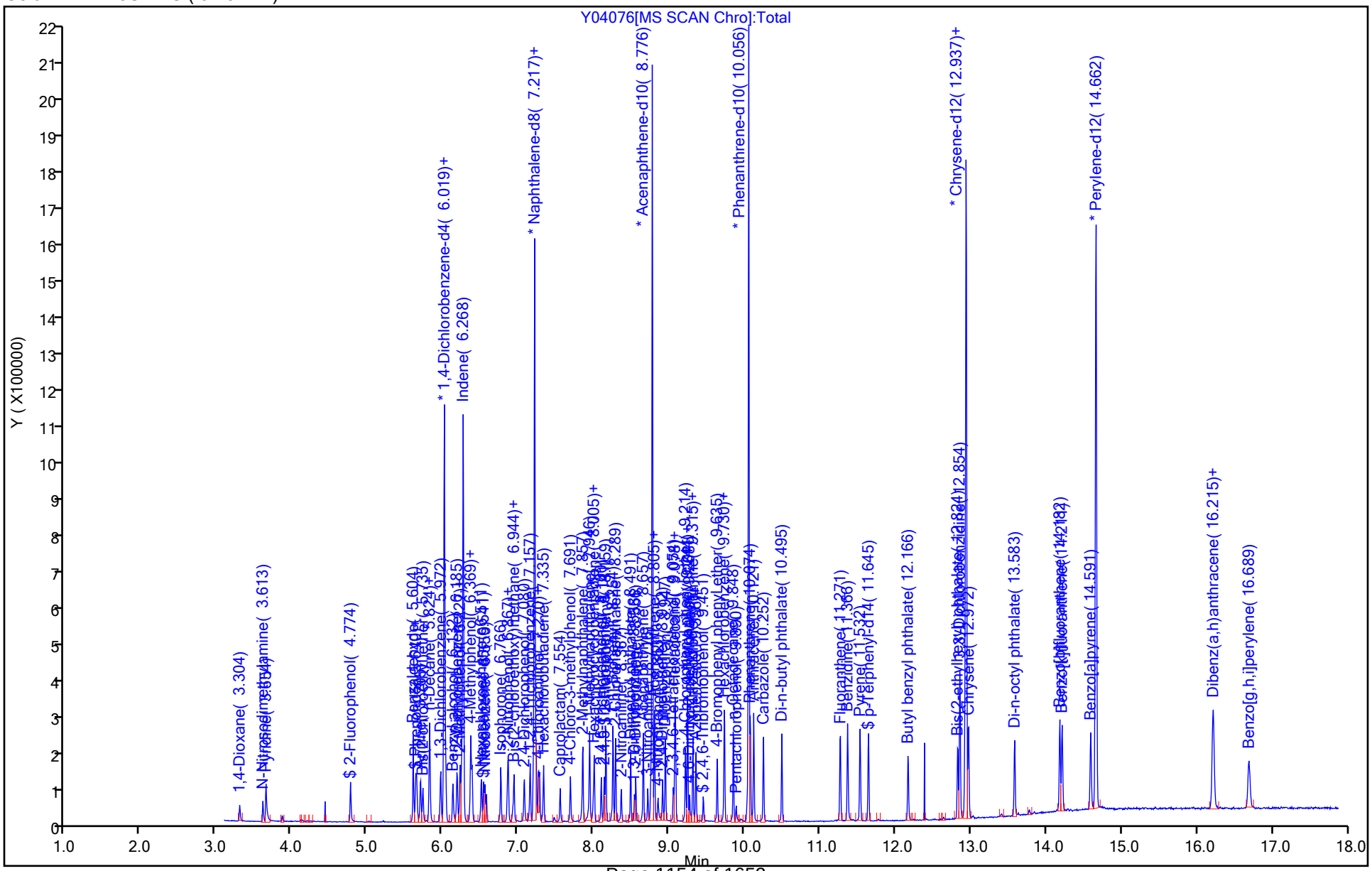
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Eurofins Buffalo

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

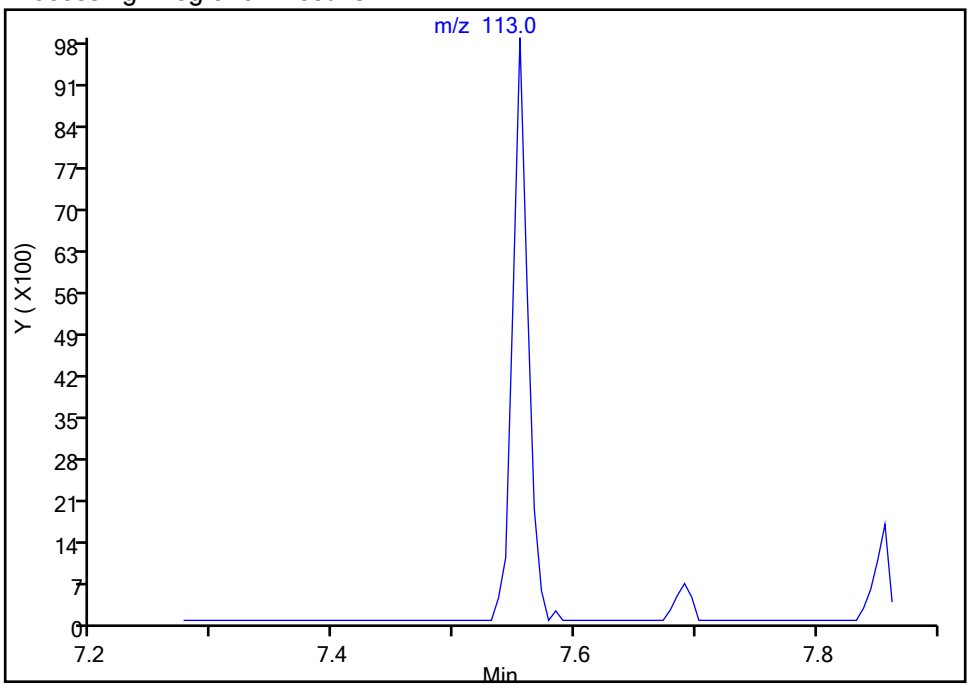
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Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

84 Caprolactam, CAS: 105-60-2

Signal: 1

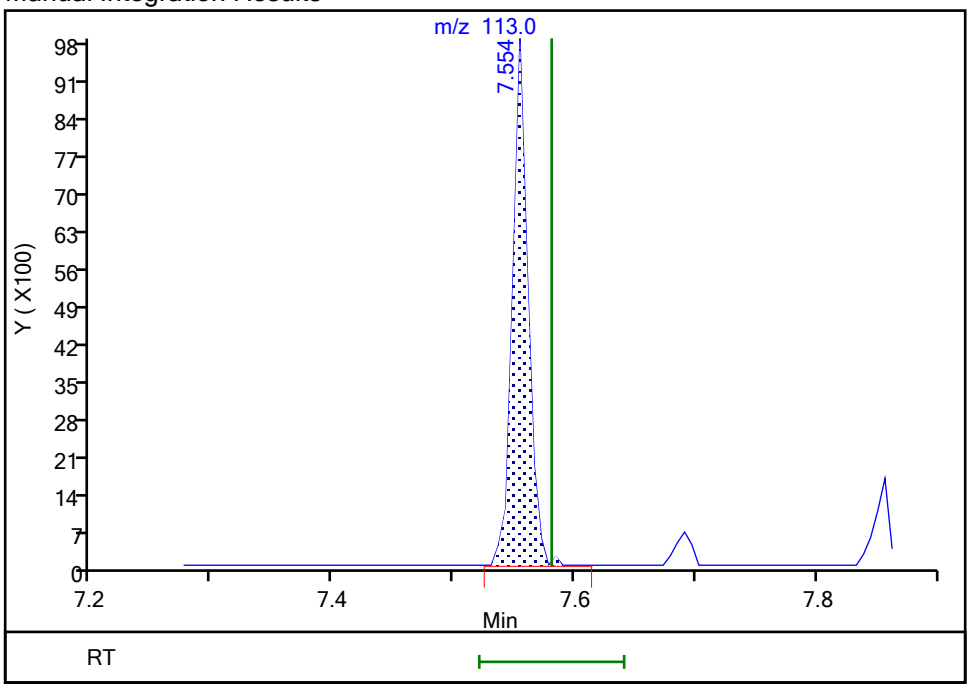
Not Detected
Expected RT: 7.58

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

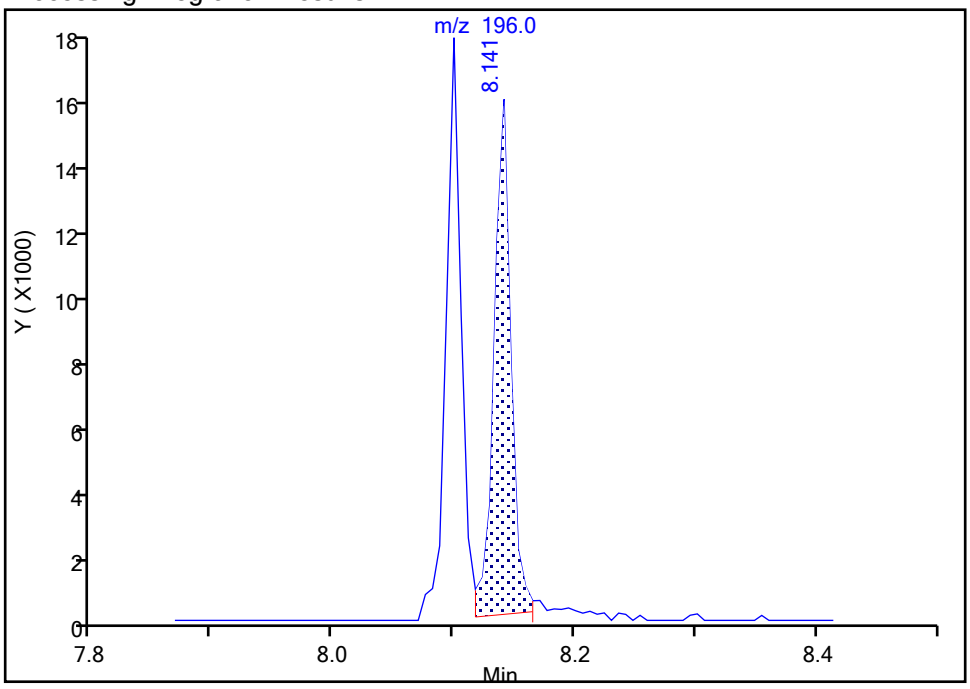
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Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

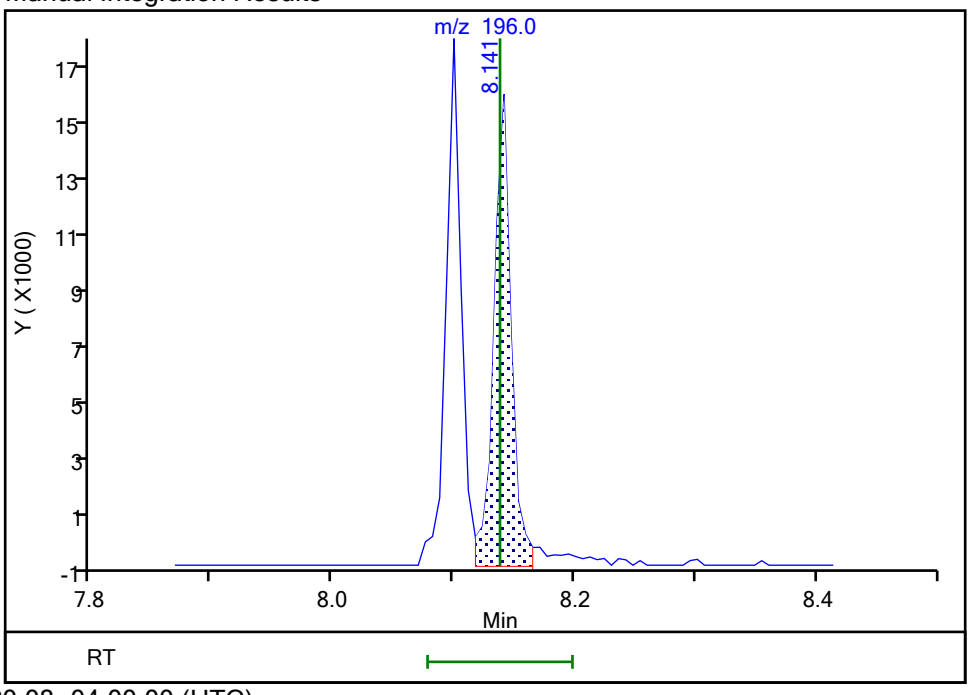
Processing Integration Results

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

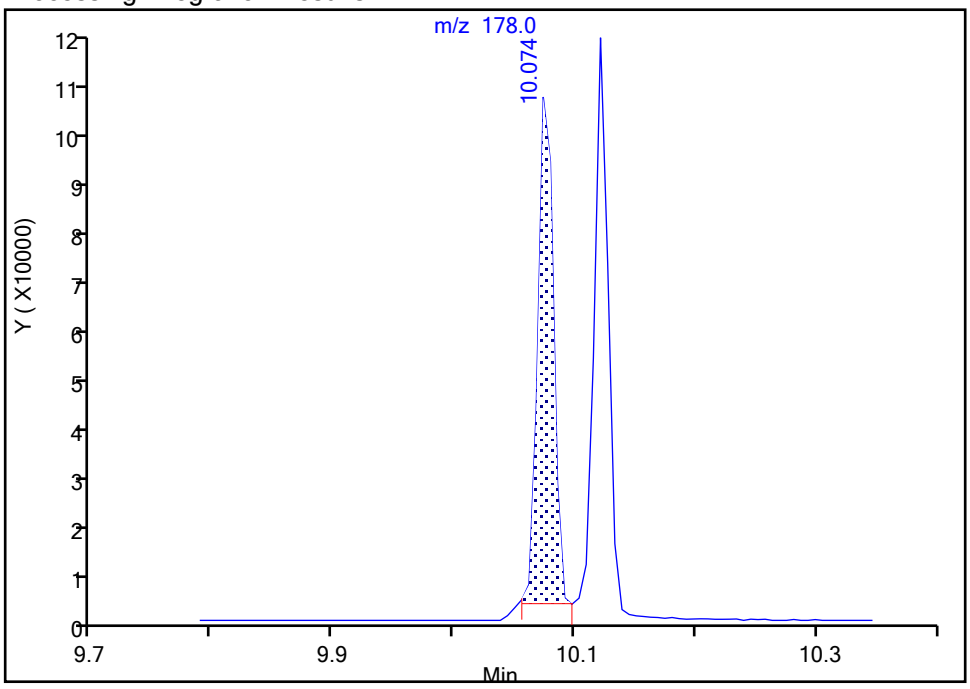
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Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

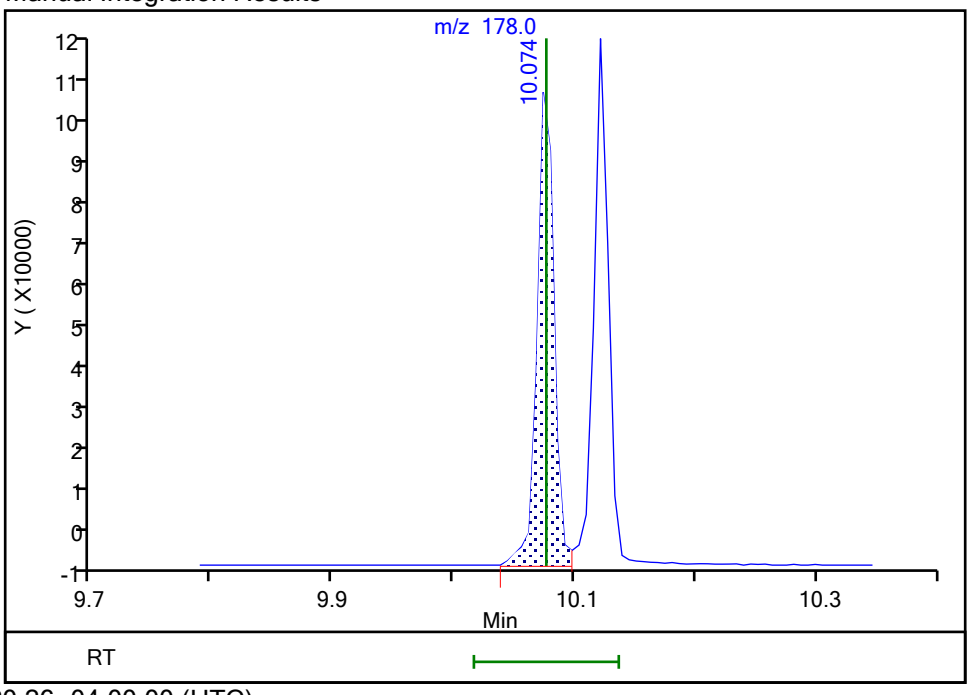
Processing Integration Results

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

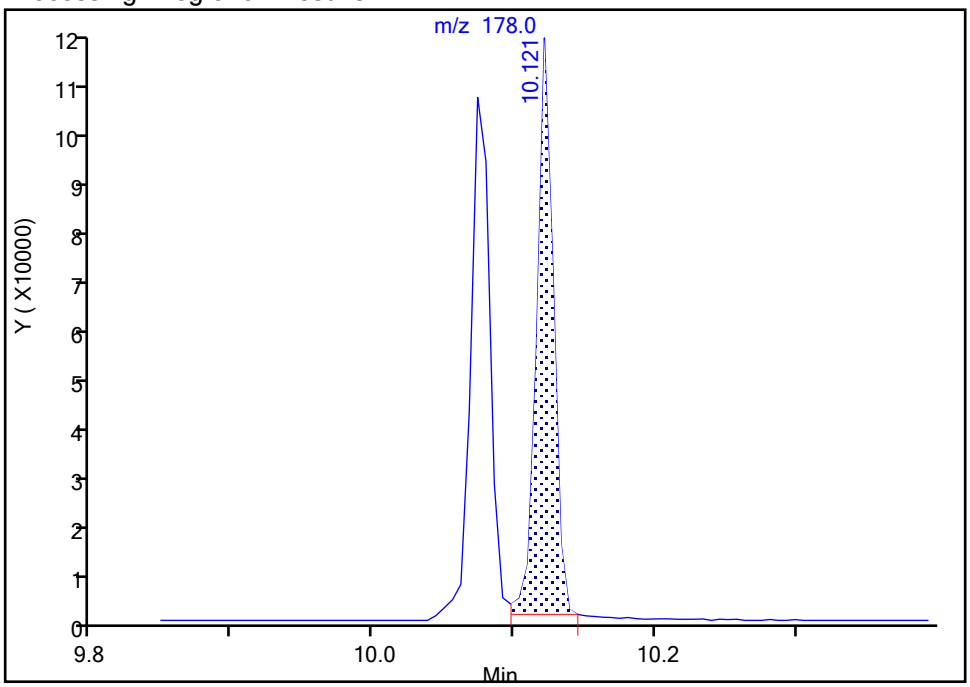
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Injection Date: 10-Oct-2024 15:14:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 0.50
Client ID:
Operator ID: JM ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

152 Anthracene, CAS: 120-12-7

Signal: 1

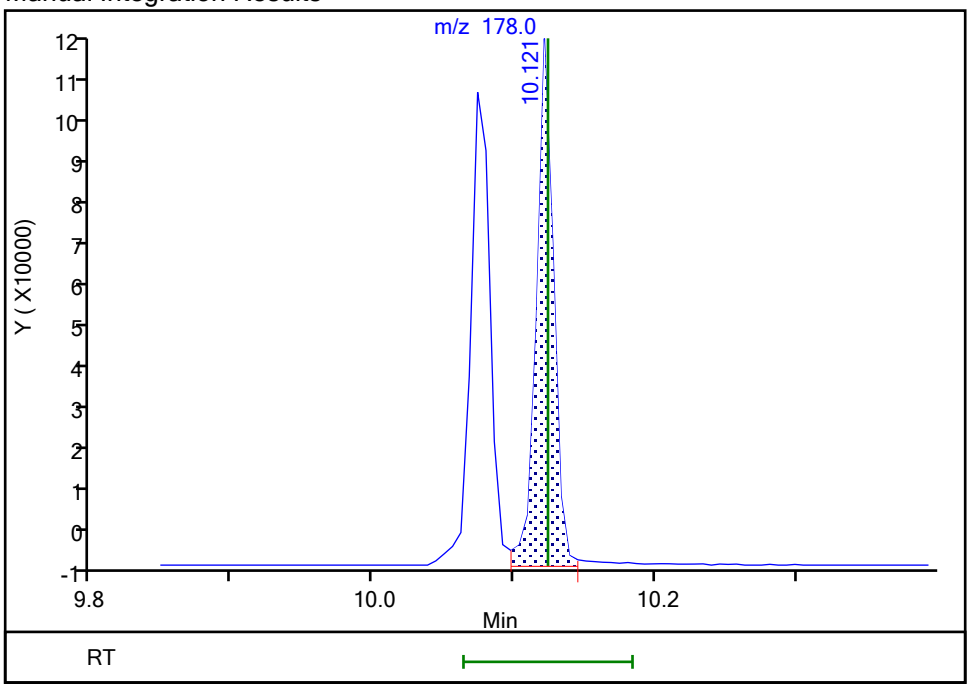
Processing Integration Results

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

Report Date: 11-Oct-2024 11:30:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

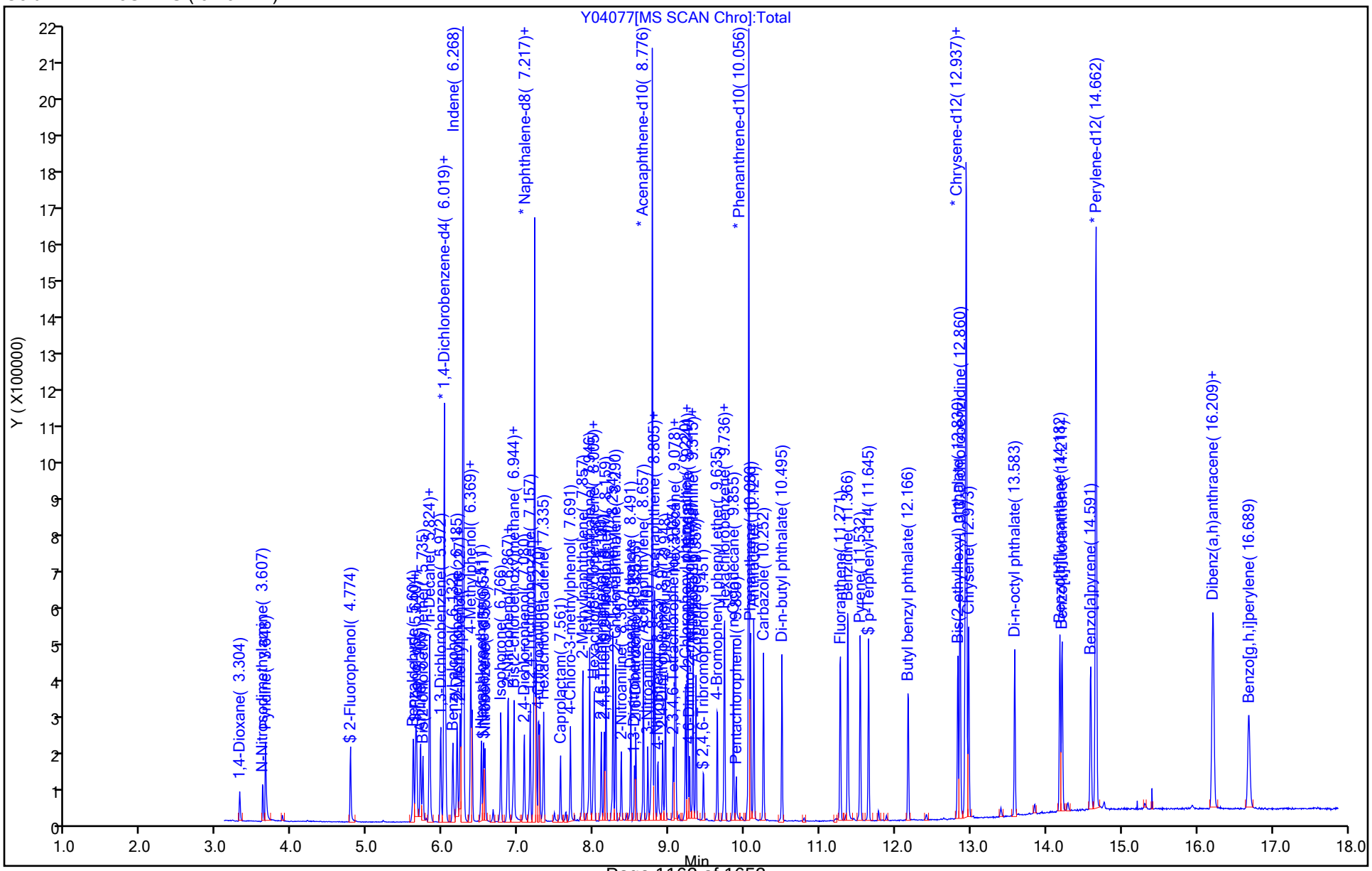
Report Date: 11-Oct-2024 11:30:57 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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)



Report Date: 11-Oct-2024 11:31:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

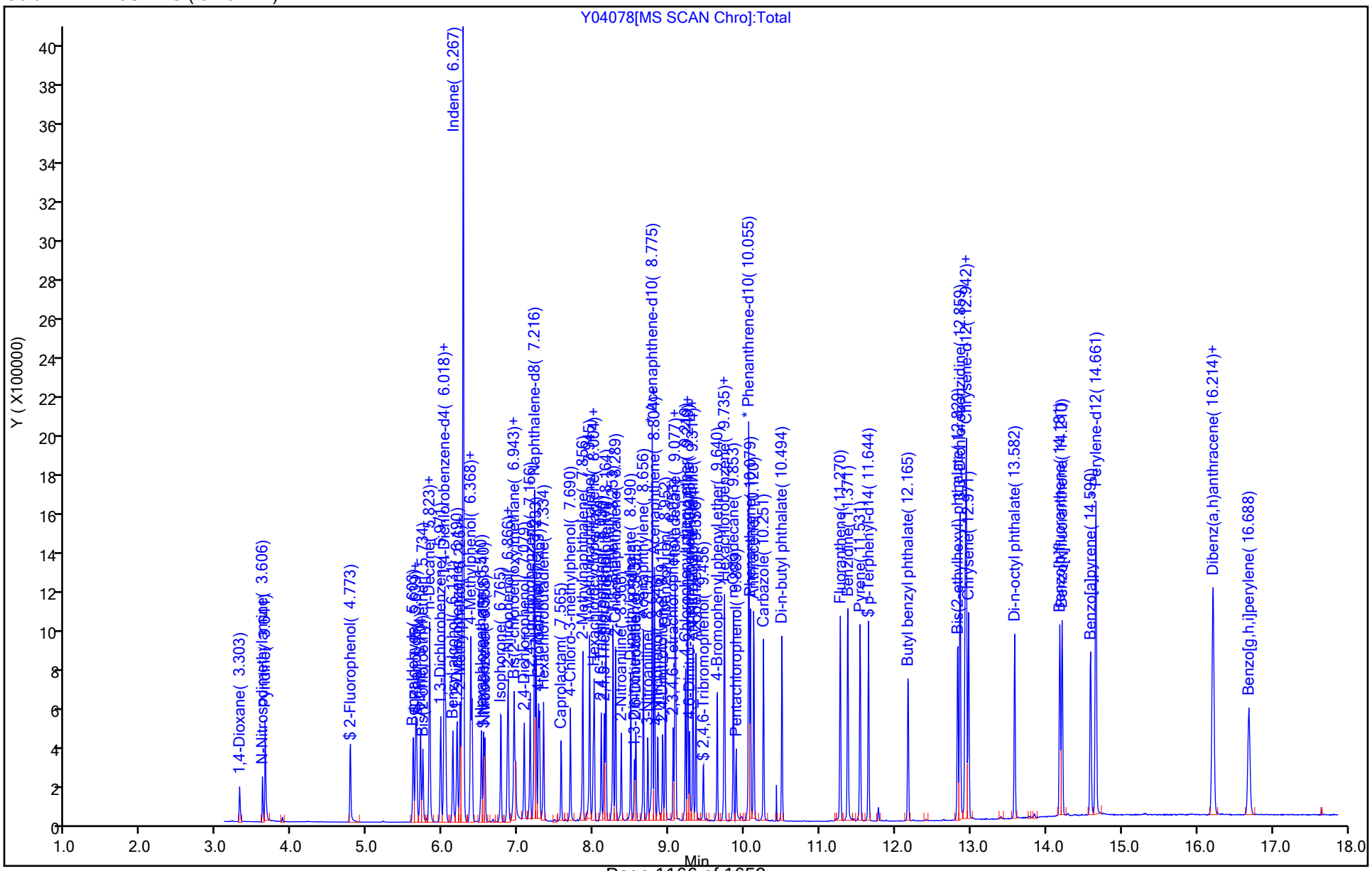
Report Date: 11-Oct-2024 11:31:20 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

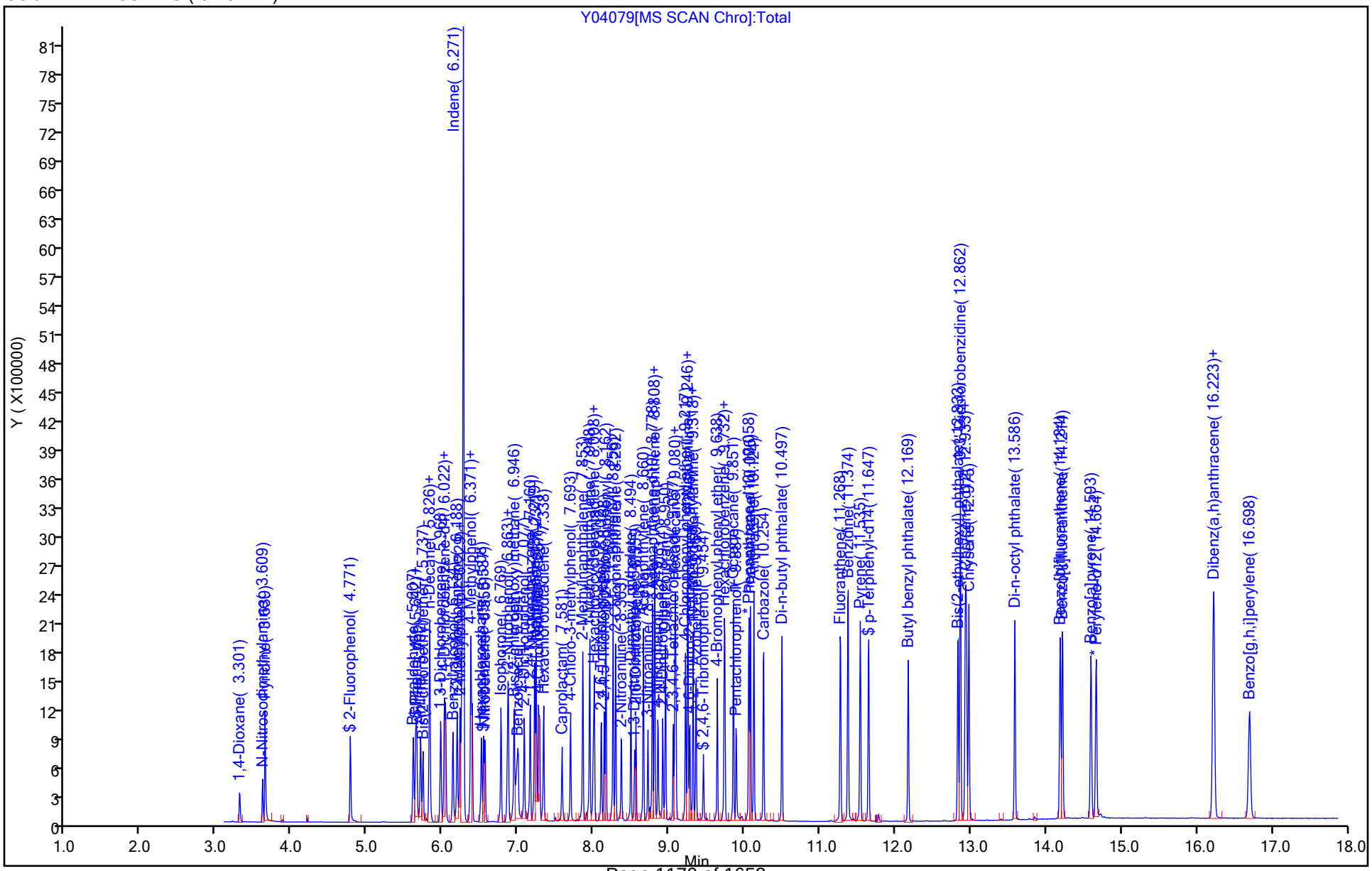
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Eurofins Buffalo

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		

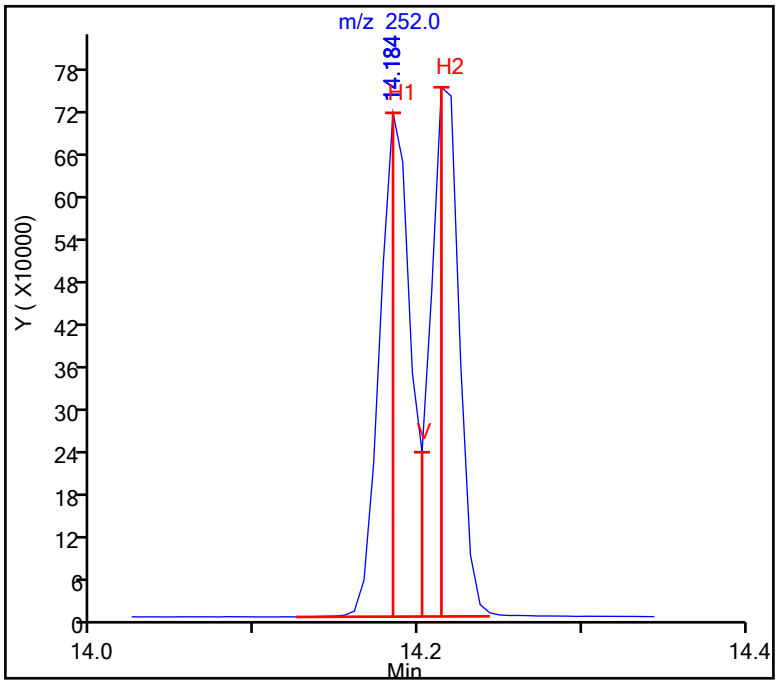
186 Benzo[b]fluoranthene - 187 Benzo[k]fluoranthene

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

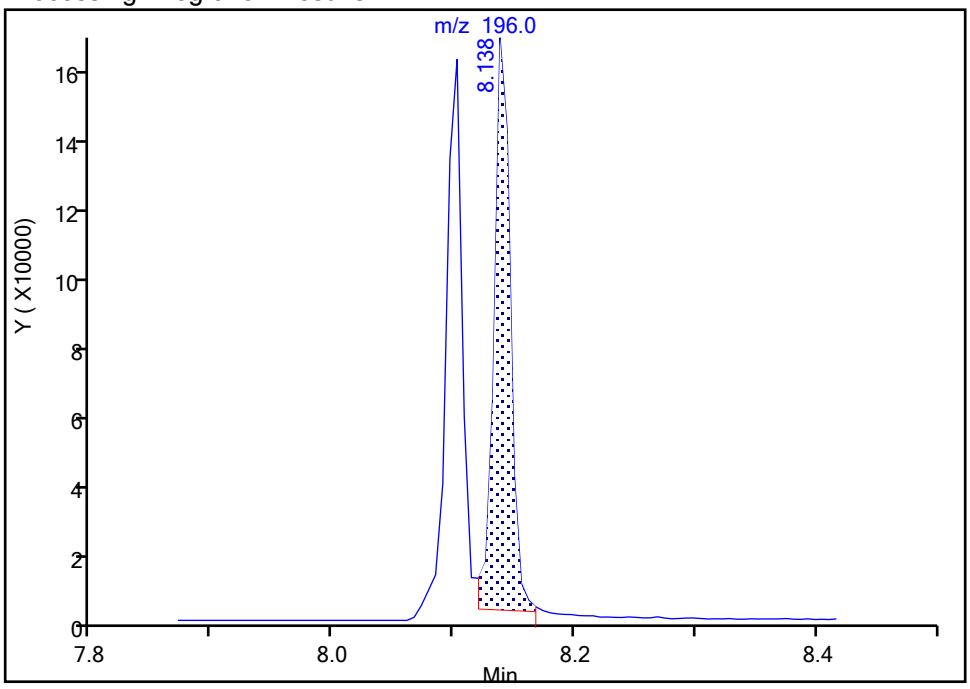
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Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

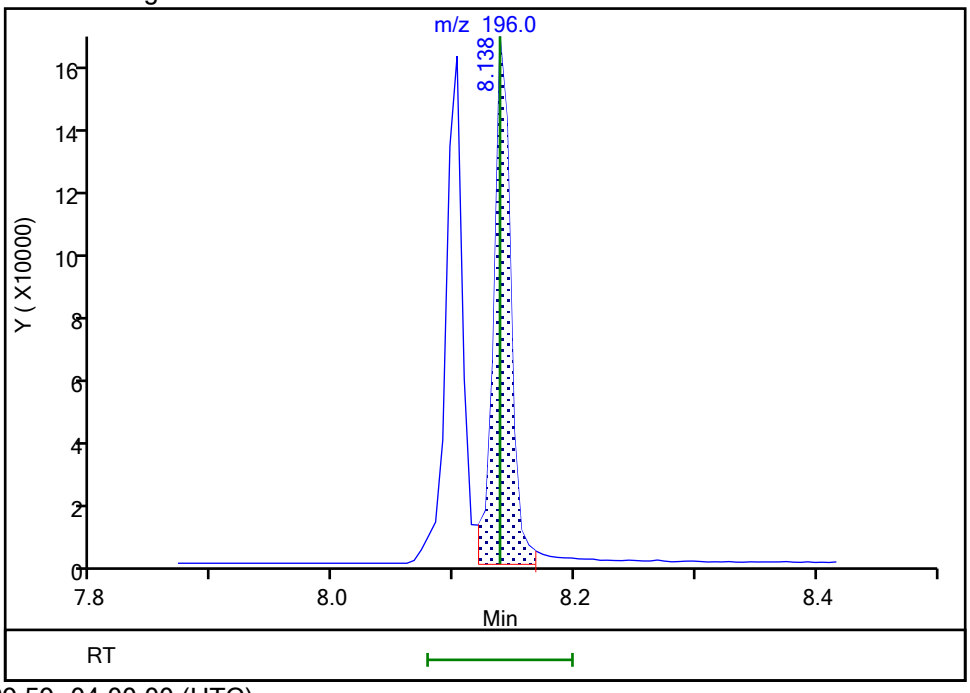
Processing Integration Results

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

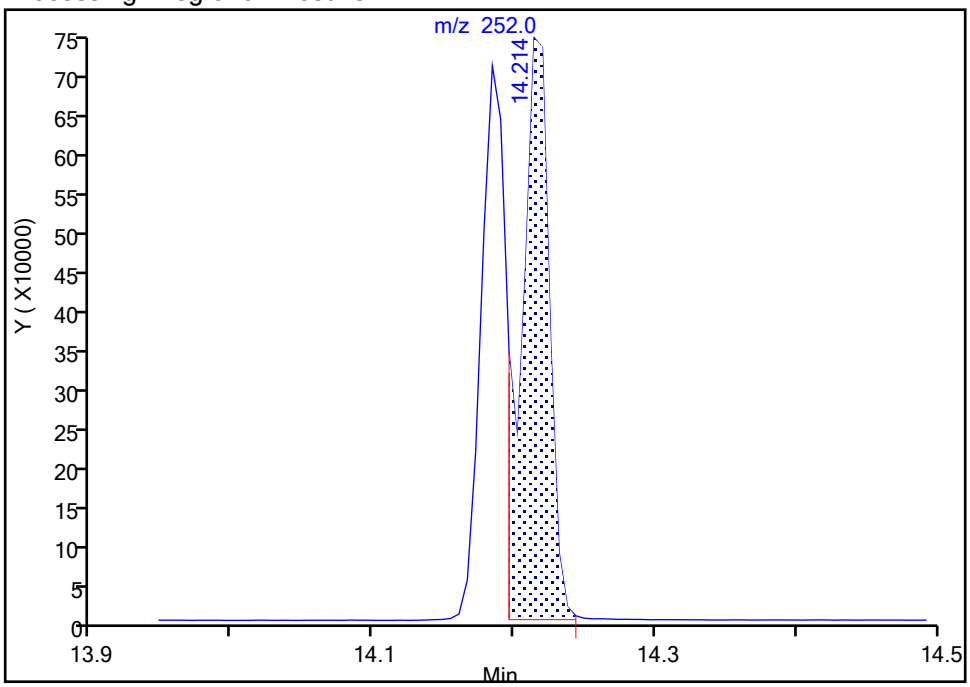
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Injection Date: 10-Oct-2024 16:37:30 Instrument ID: HP5973Y
Lims ID: ICIS - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

187 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

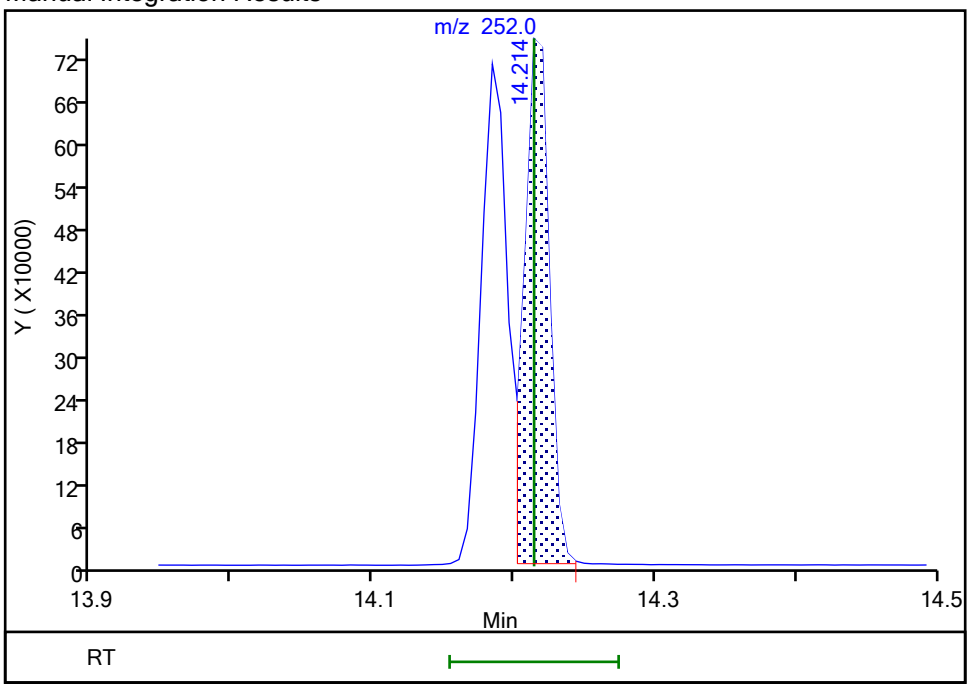
Processing Integration Results

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

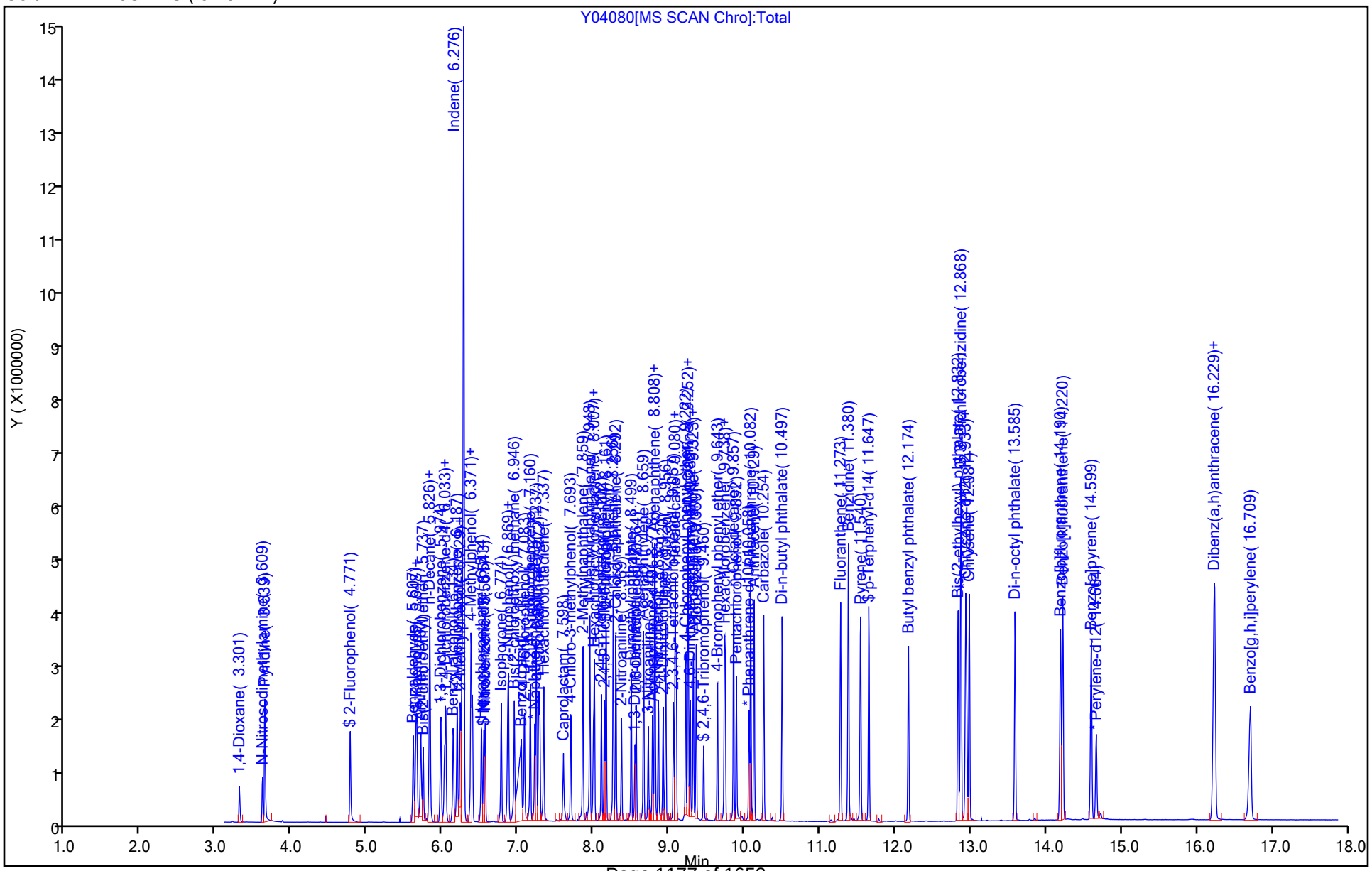
Report Date: 11-Oct-2024 11:32:12 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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)



Eurofins Buffalo

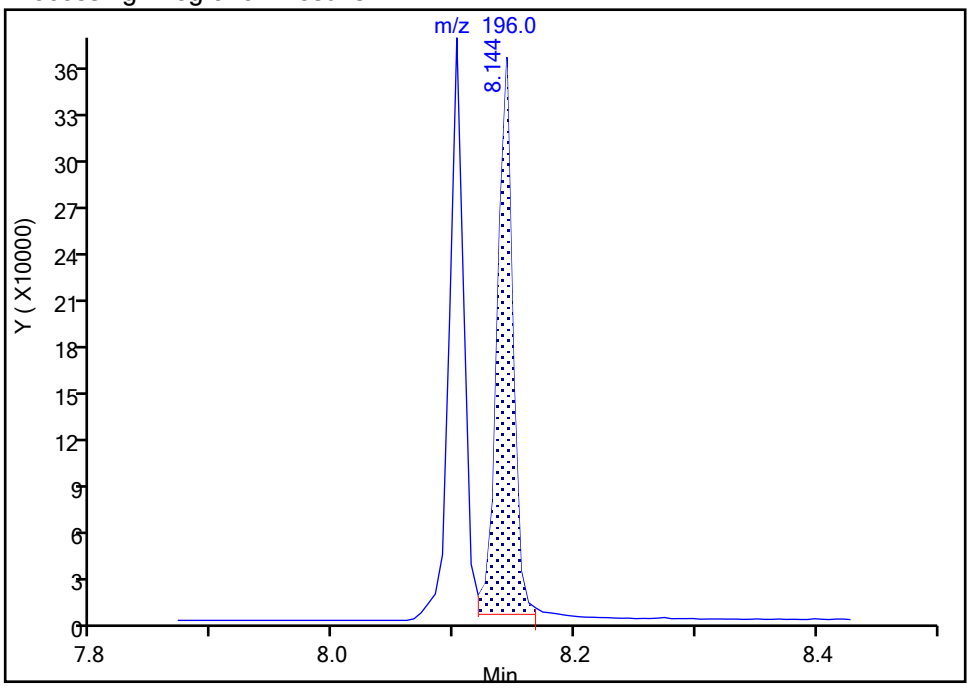
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04080.D
Injection Date: 10-Oct-2024 17:05:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 8
Client ID:
Operator ID: JM ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

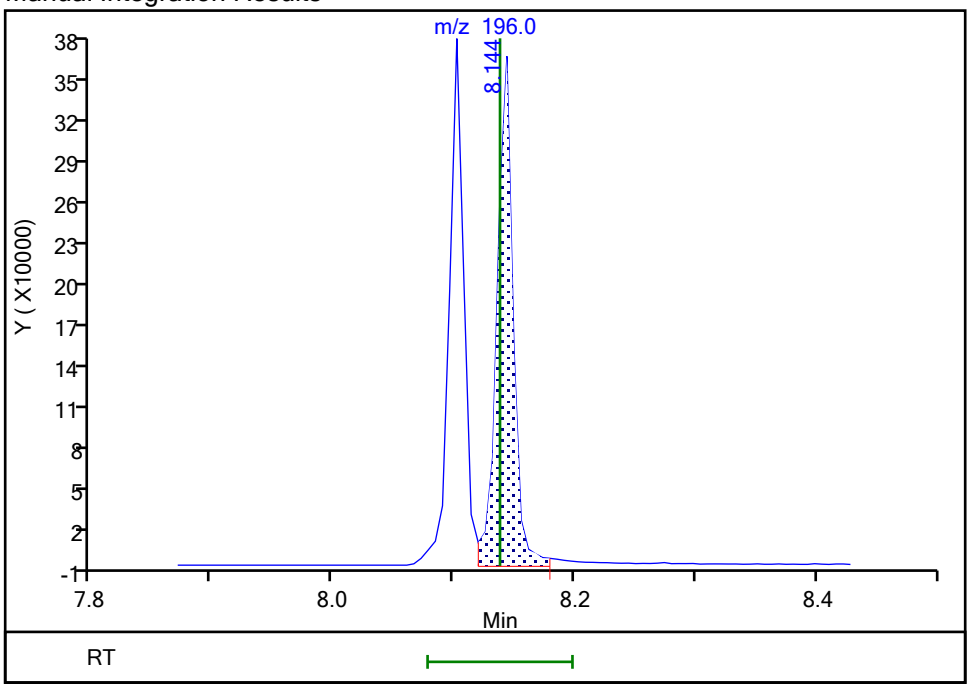
Processing Integration Results

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

Report Date: 11-Oct-2024 11:32:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

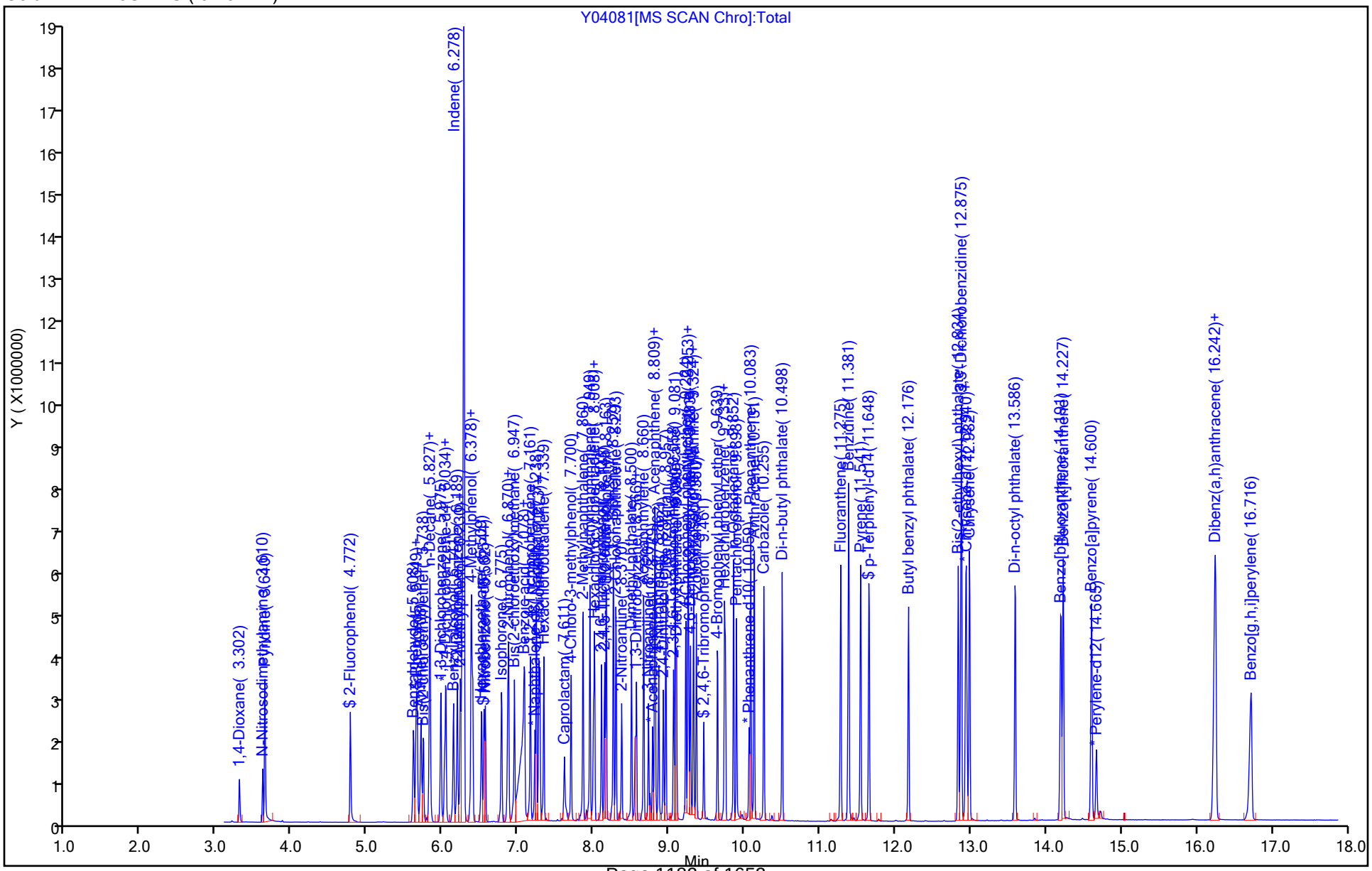
Report Date: 11-Oct-2024 11:32:30 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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)



Manual Integration/User Assign Peak Report

Eurofins Buffalo

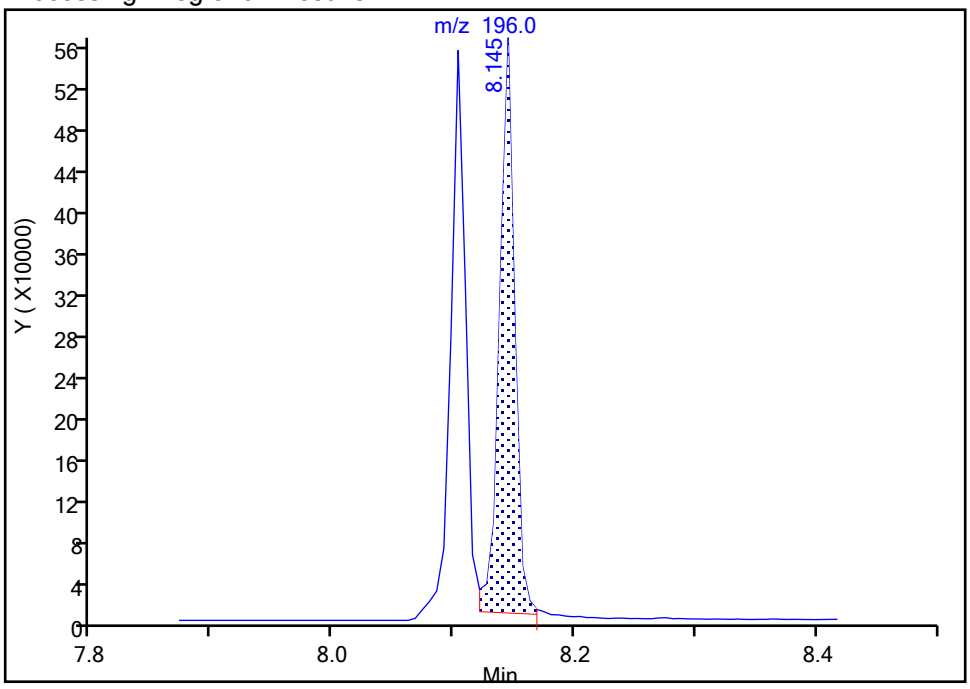
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04081.D
Injection Date: 10-Oct-2024 17:32:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 12
Client ID:
Operator ID: JM ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

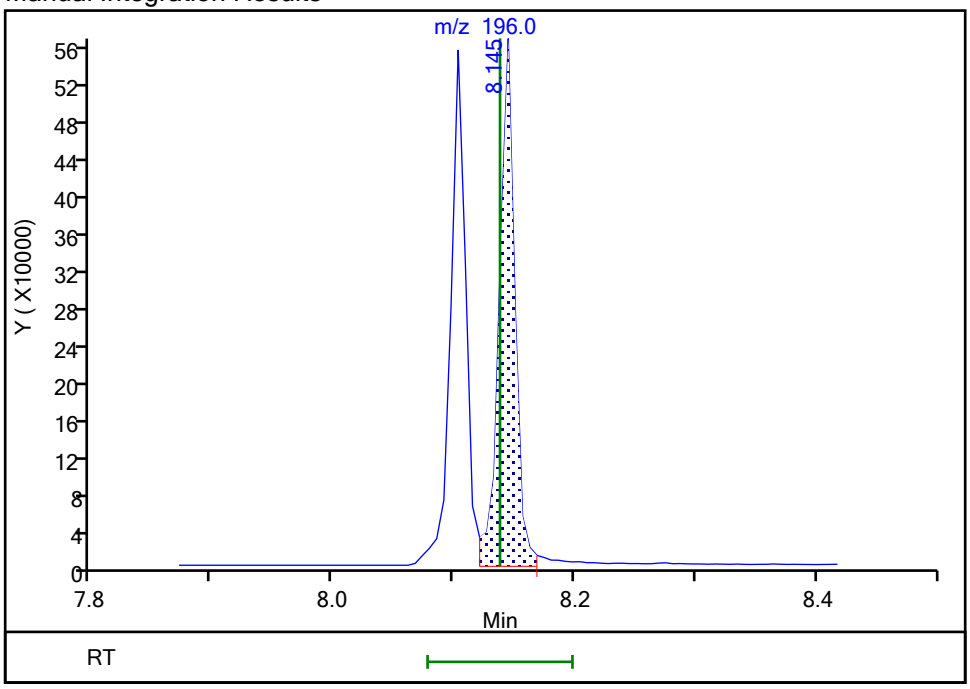
Processing Integration Results

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

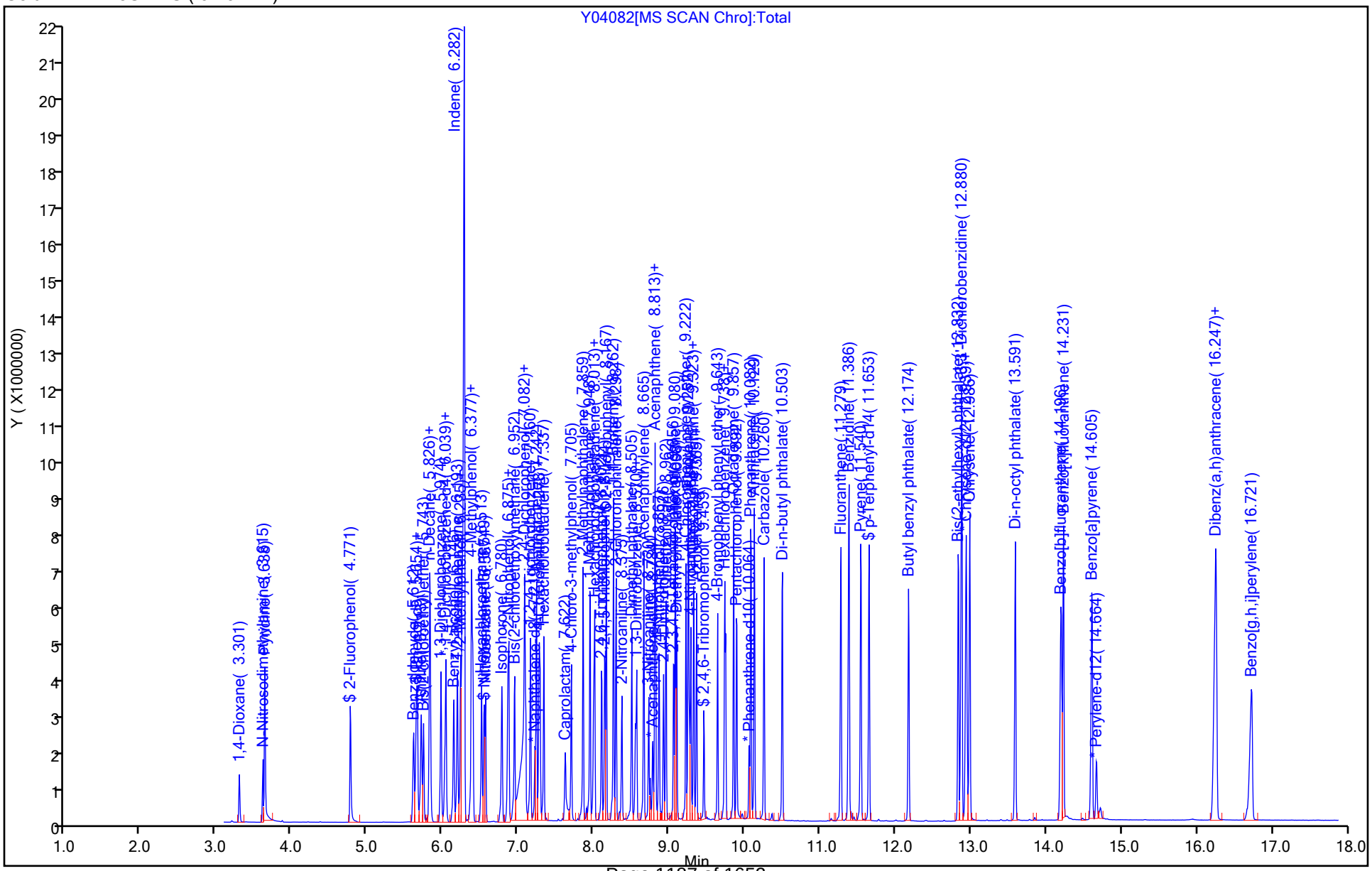
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Eurofins Buffalo

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

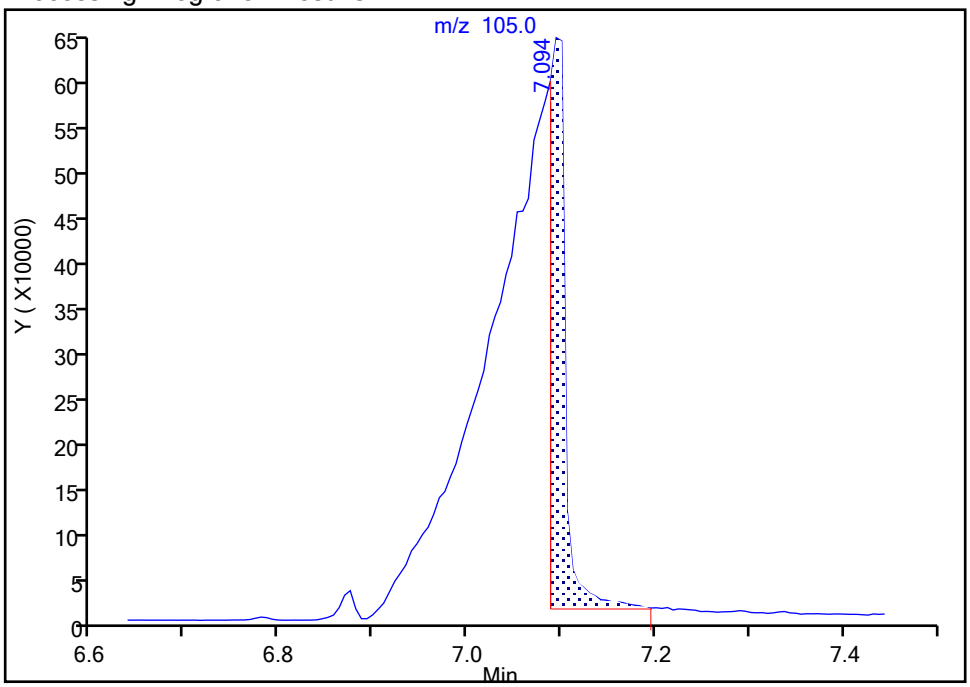
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Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

70 Benzoic acid, CAS: 65-85-0

Signal: 1

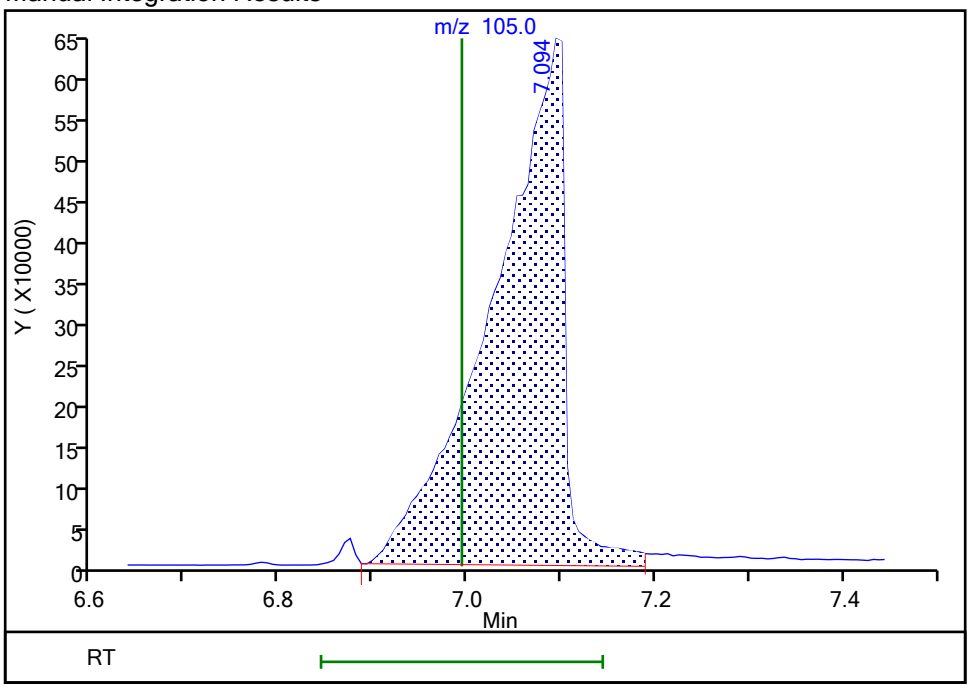
Processing Integration Results

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

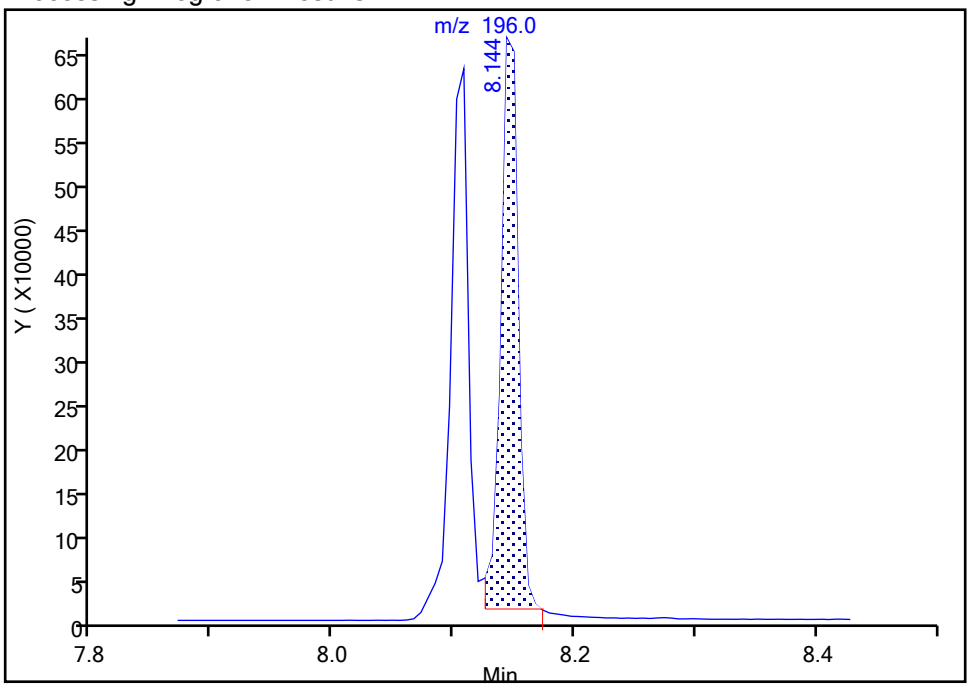
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Injection Date: 10-Oct-2024 18:00:30 Instrument ID: HP5973Y
Lims ID: IC - List 1 - 16
Client ID:
Operator ID: JM ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

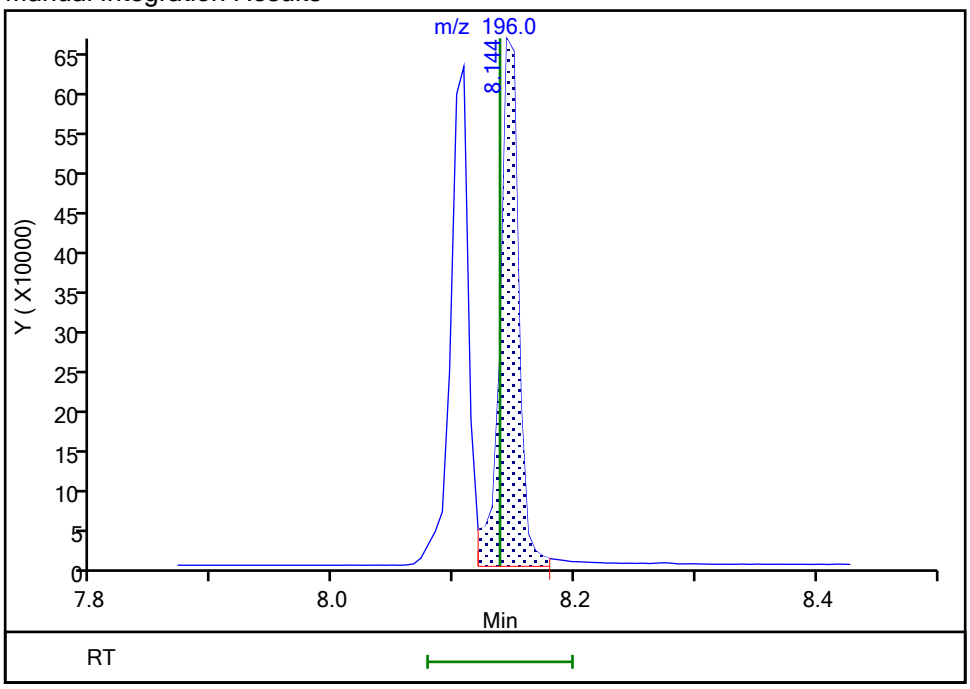
Processing Integration Results

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

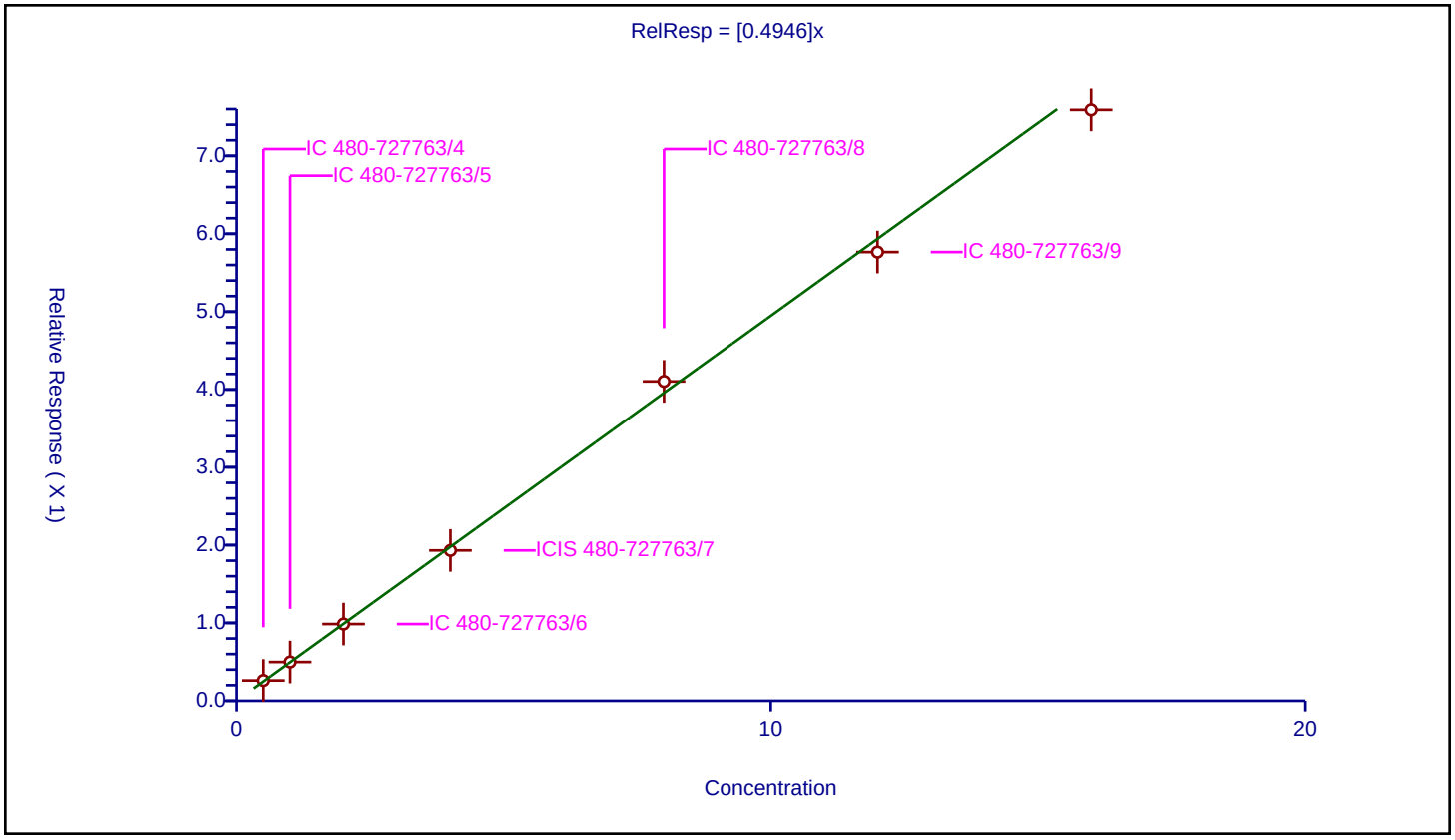
Curve Coefficients

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

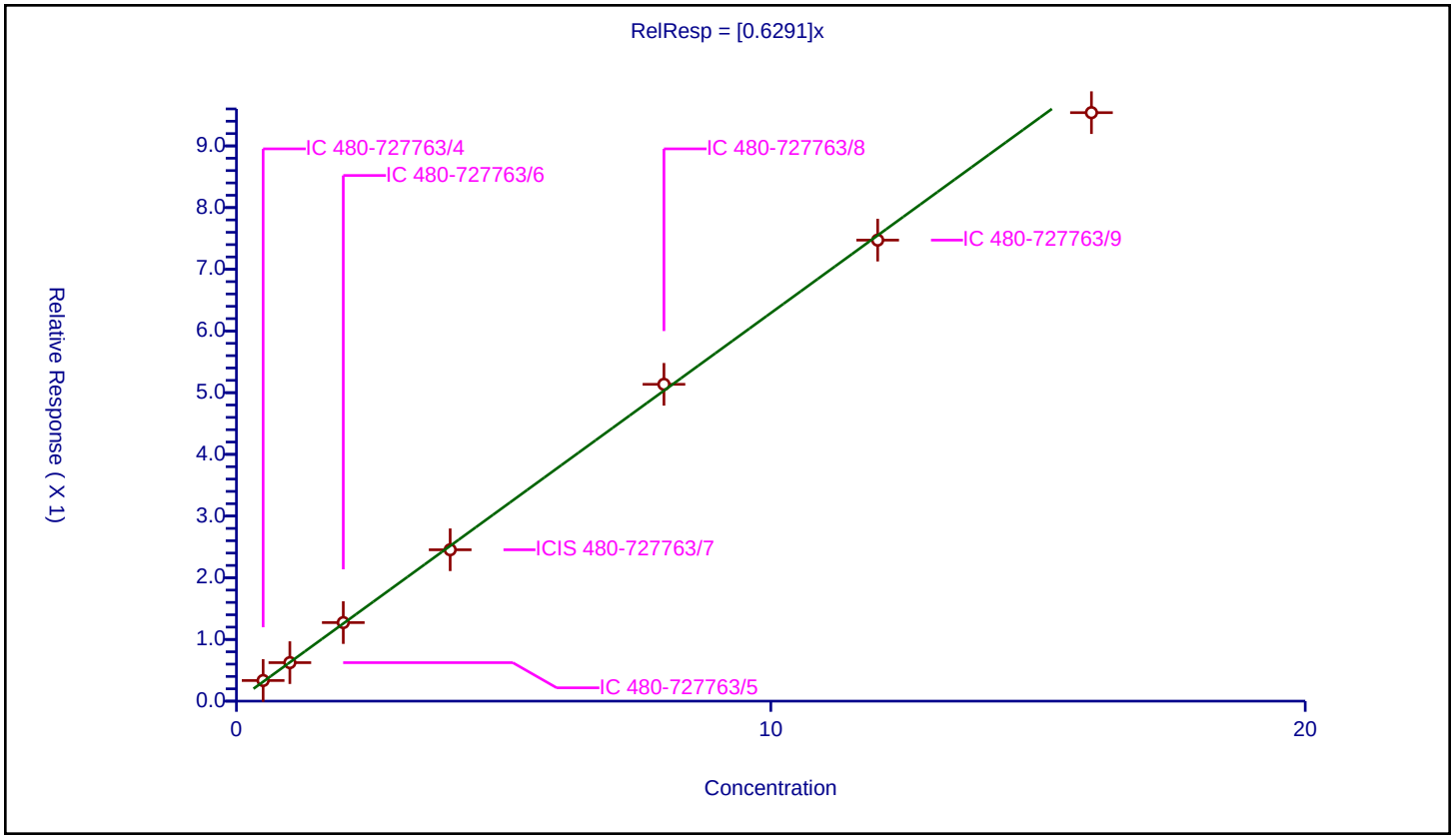
Curve Coefficients

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

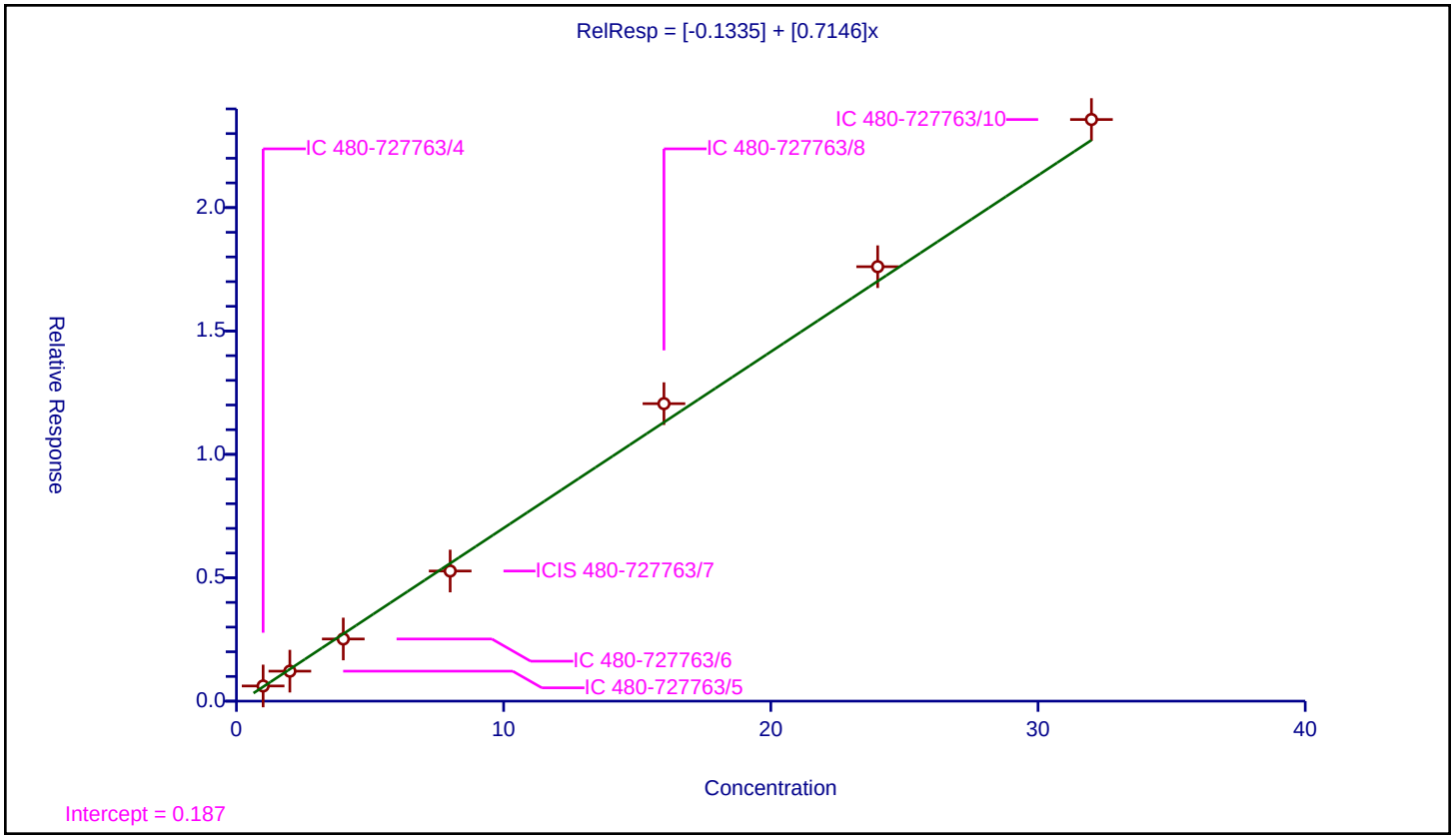
Curve Coefficients

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



Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

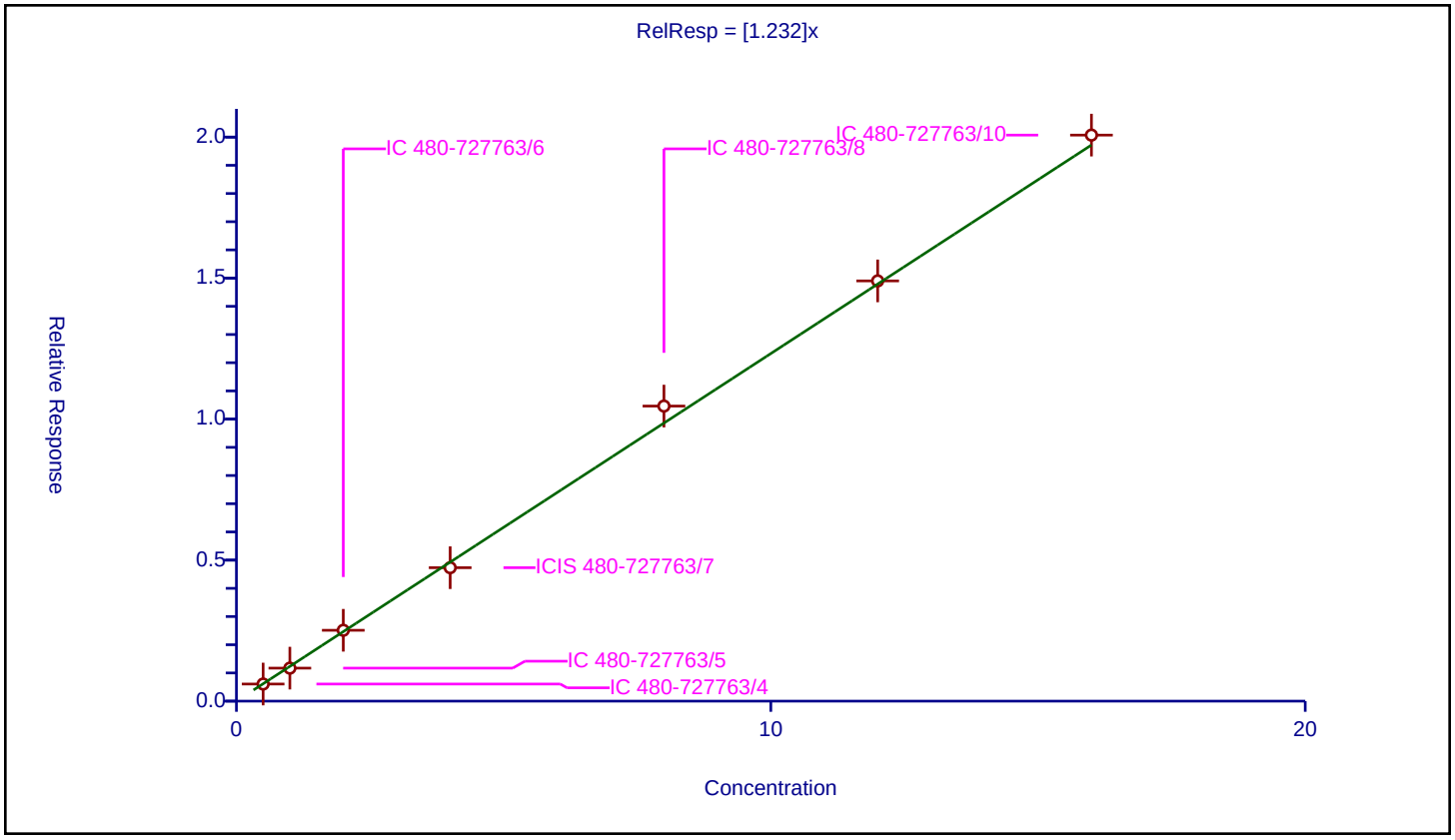
Curve Coefficients

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

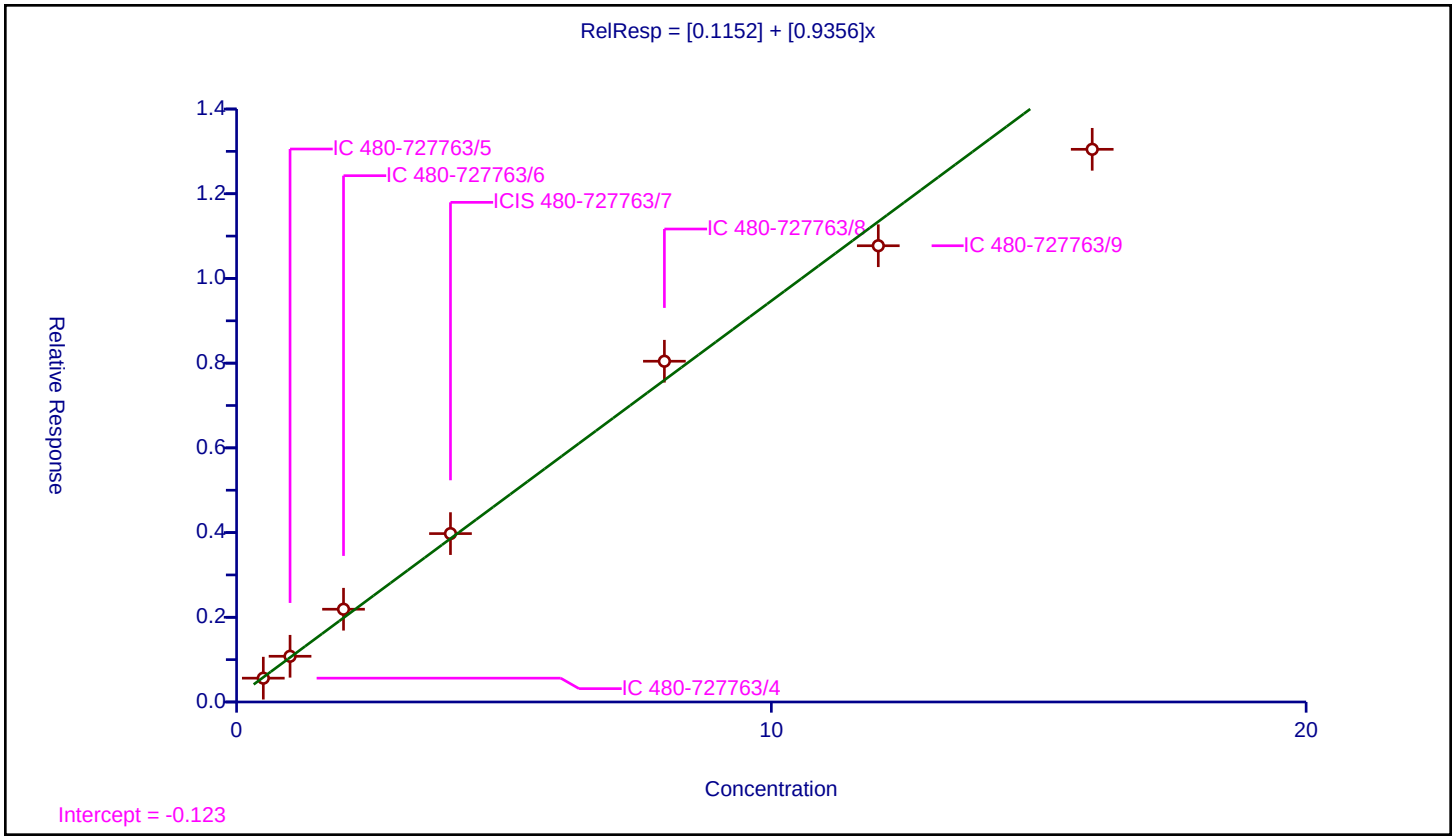
Curve Coefficients

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

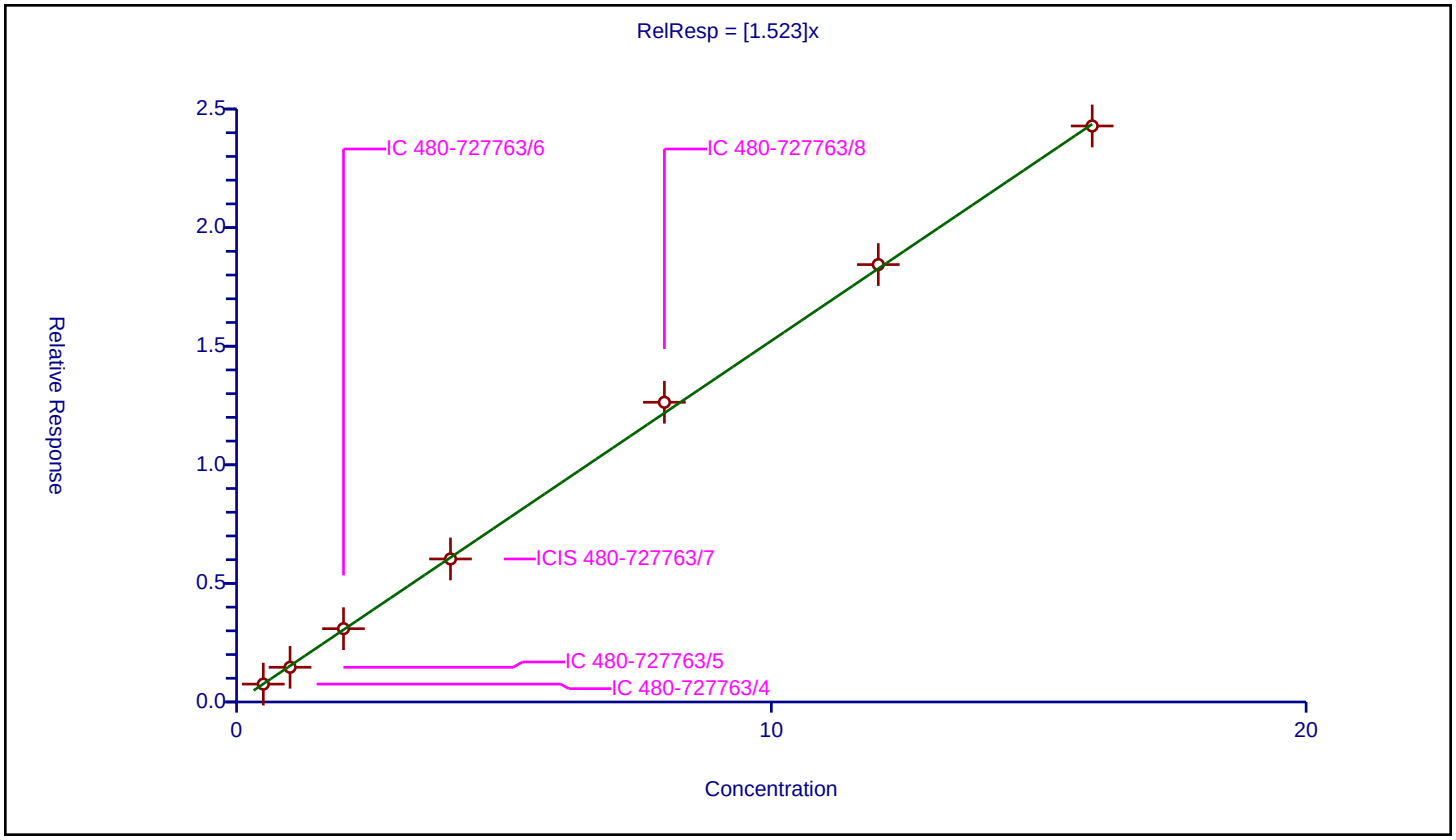
Curve Coefficients

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

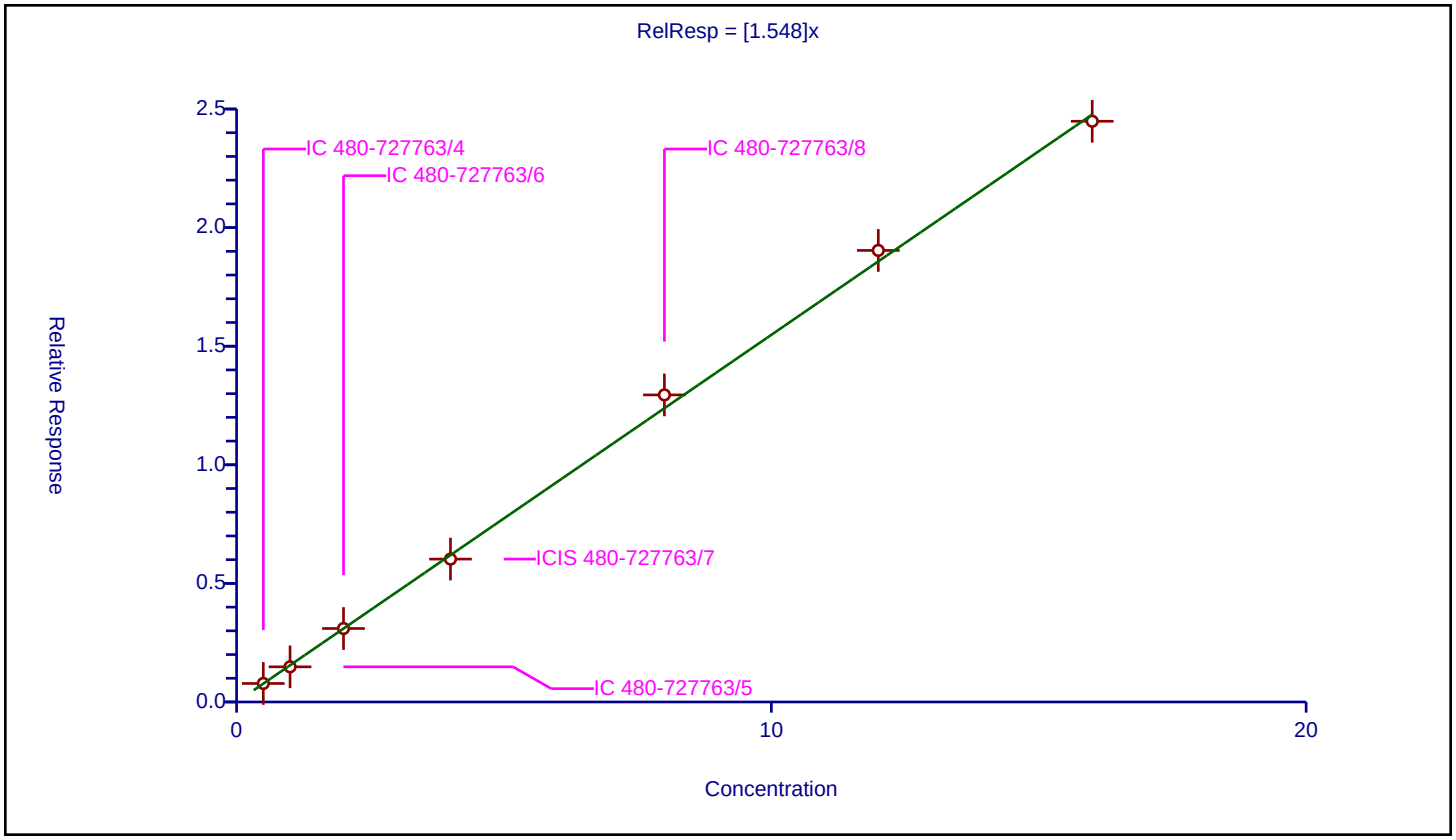
Curve Coefficients

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



Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

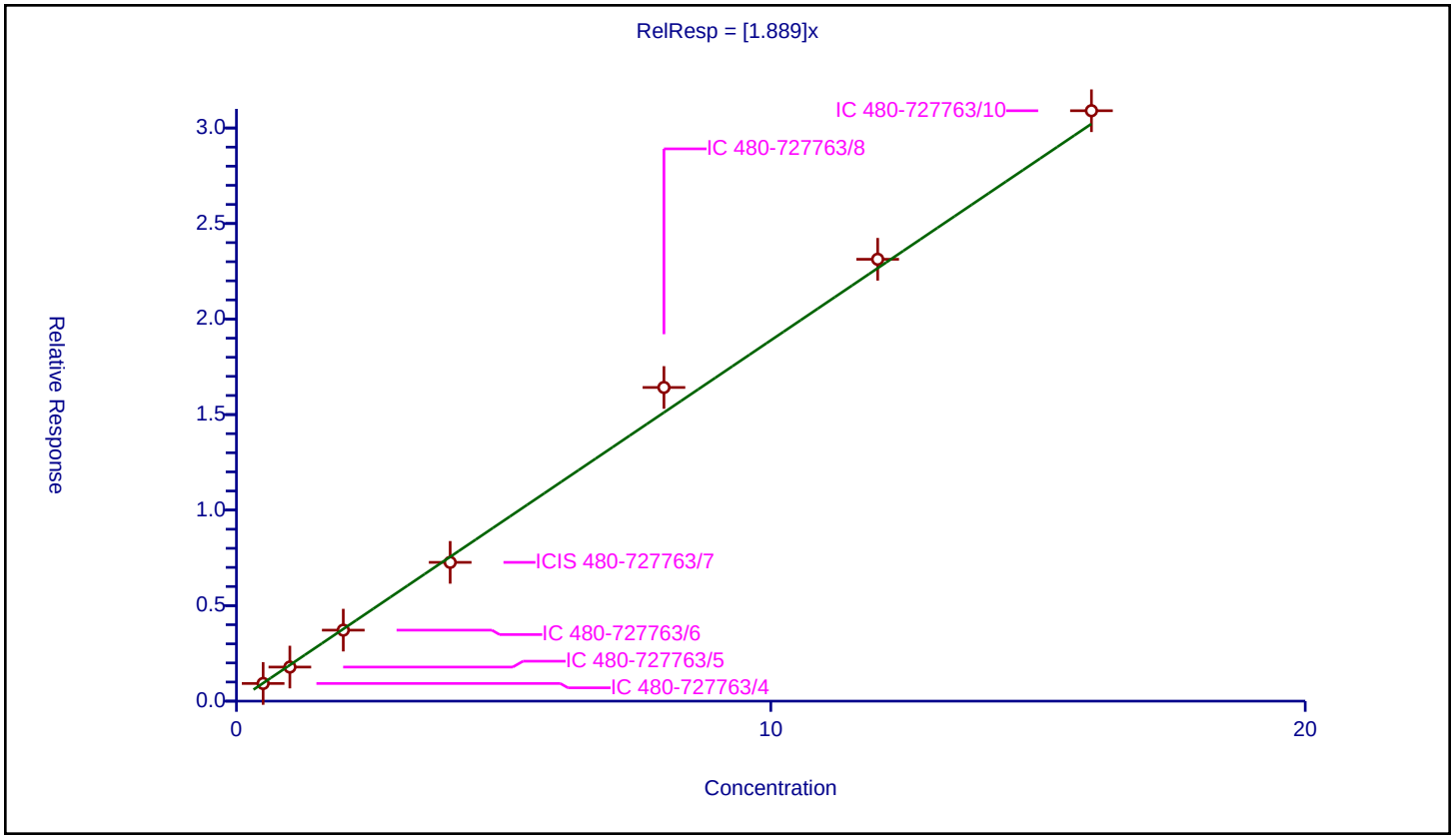
Curve Coefficients

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



Calibration / Bis(2-chloroethyl)ether

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

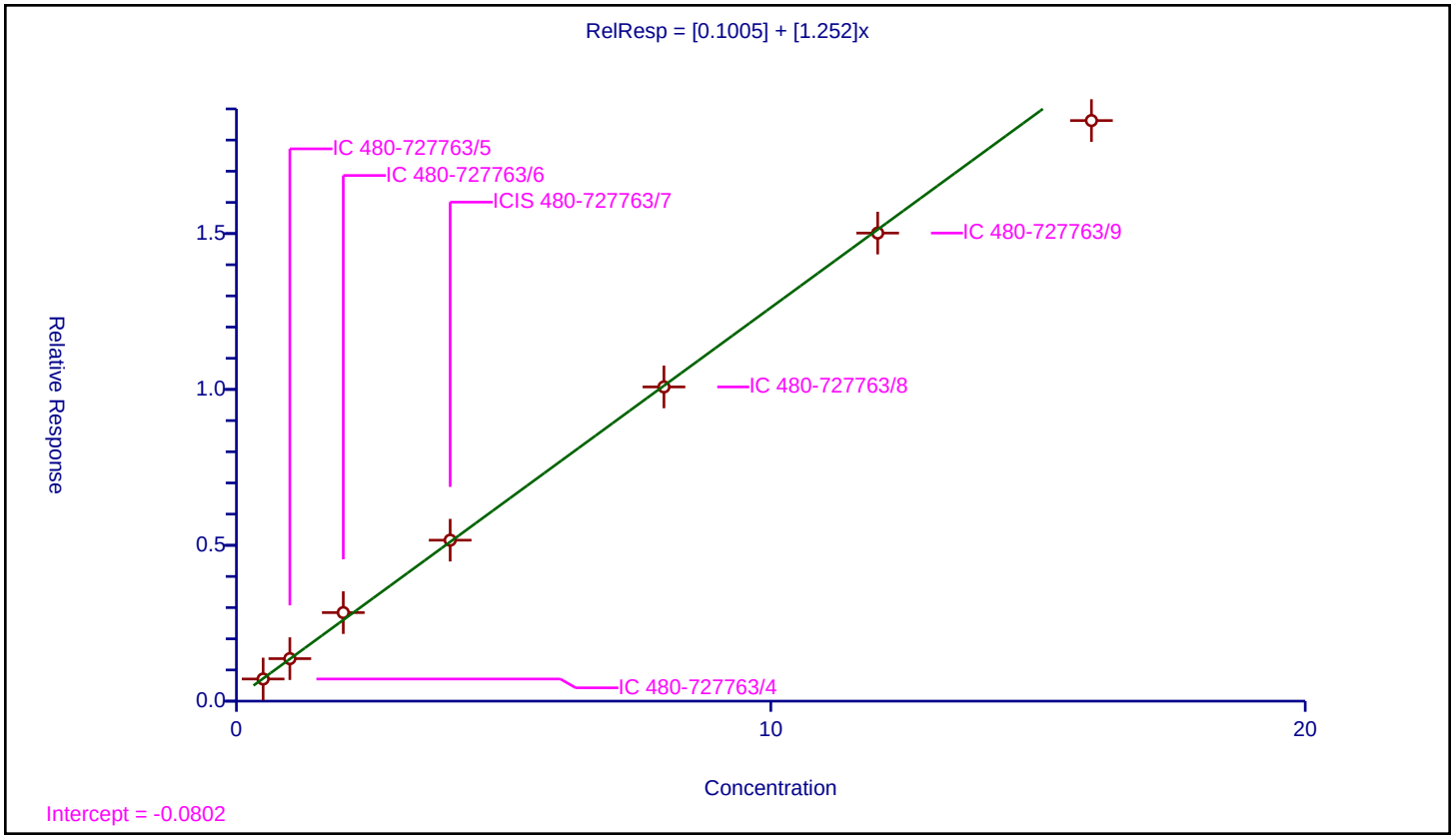
Curve Coefficients

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

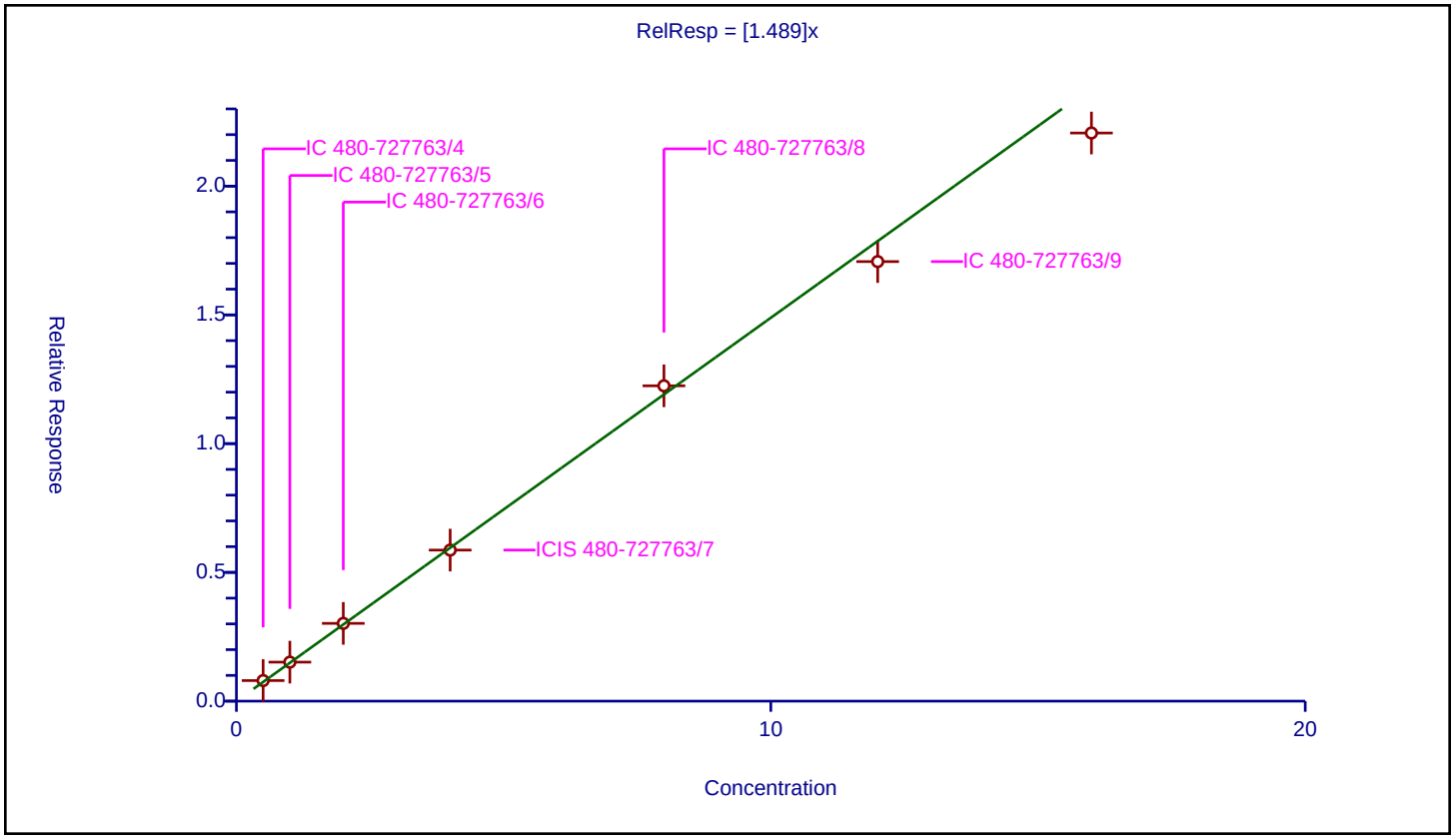
Curve Coefficients

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



Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

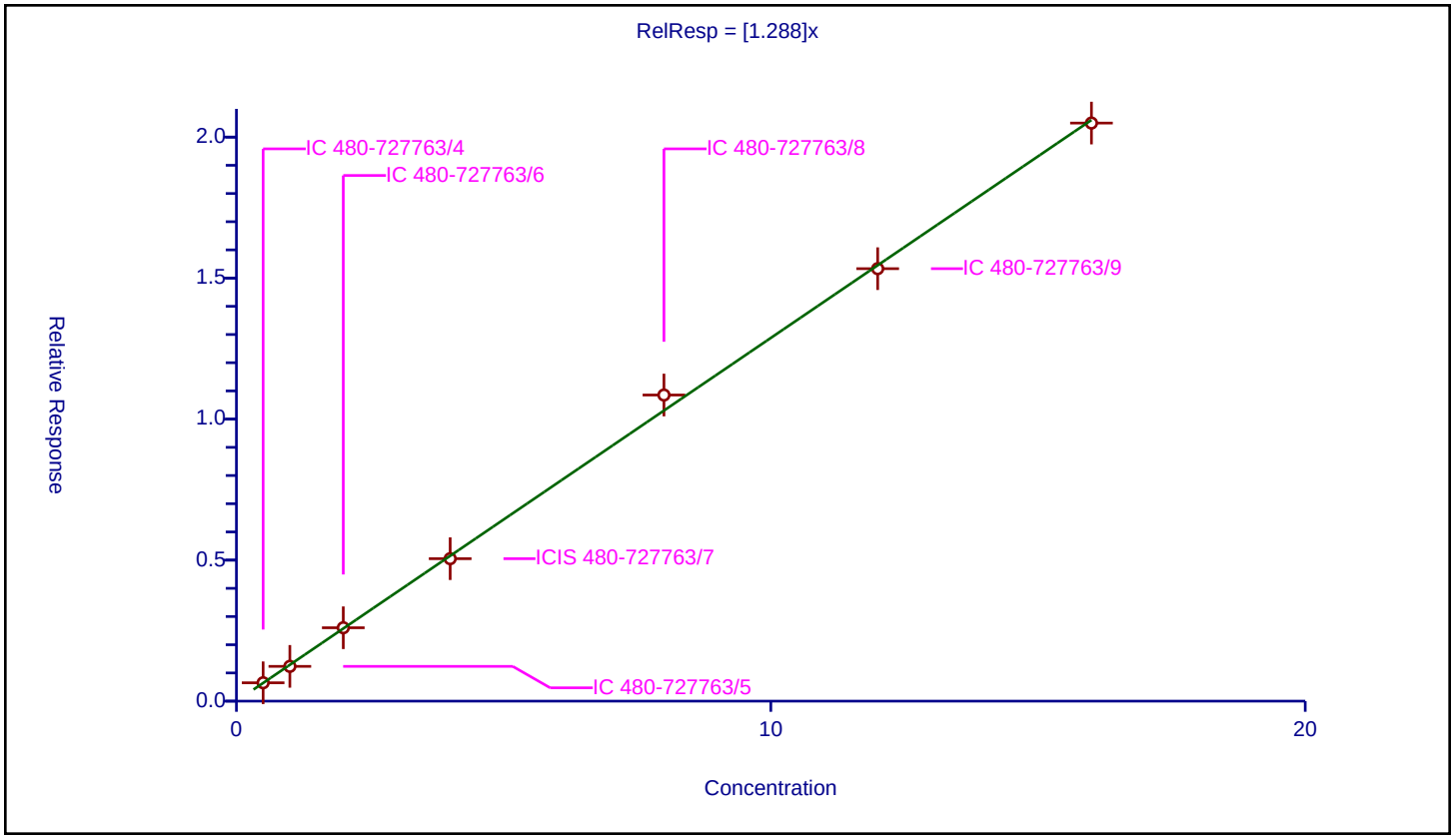
Curve Coefficients

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

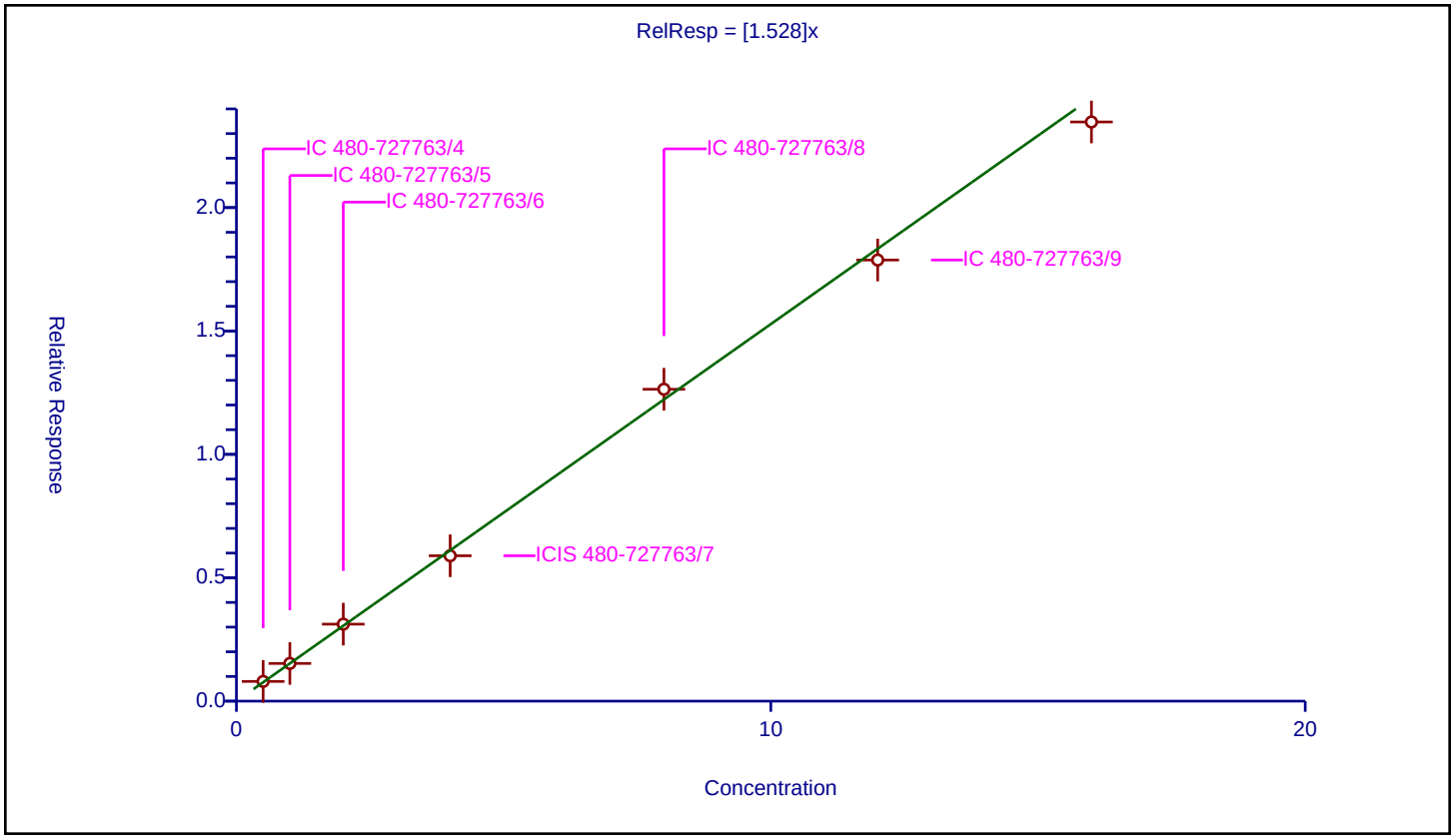
Curve Coefficients

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

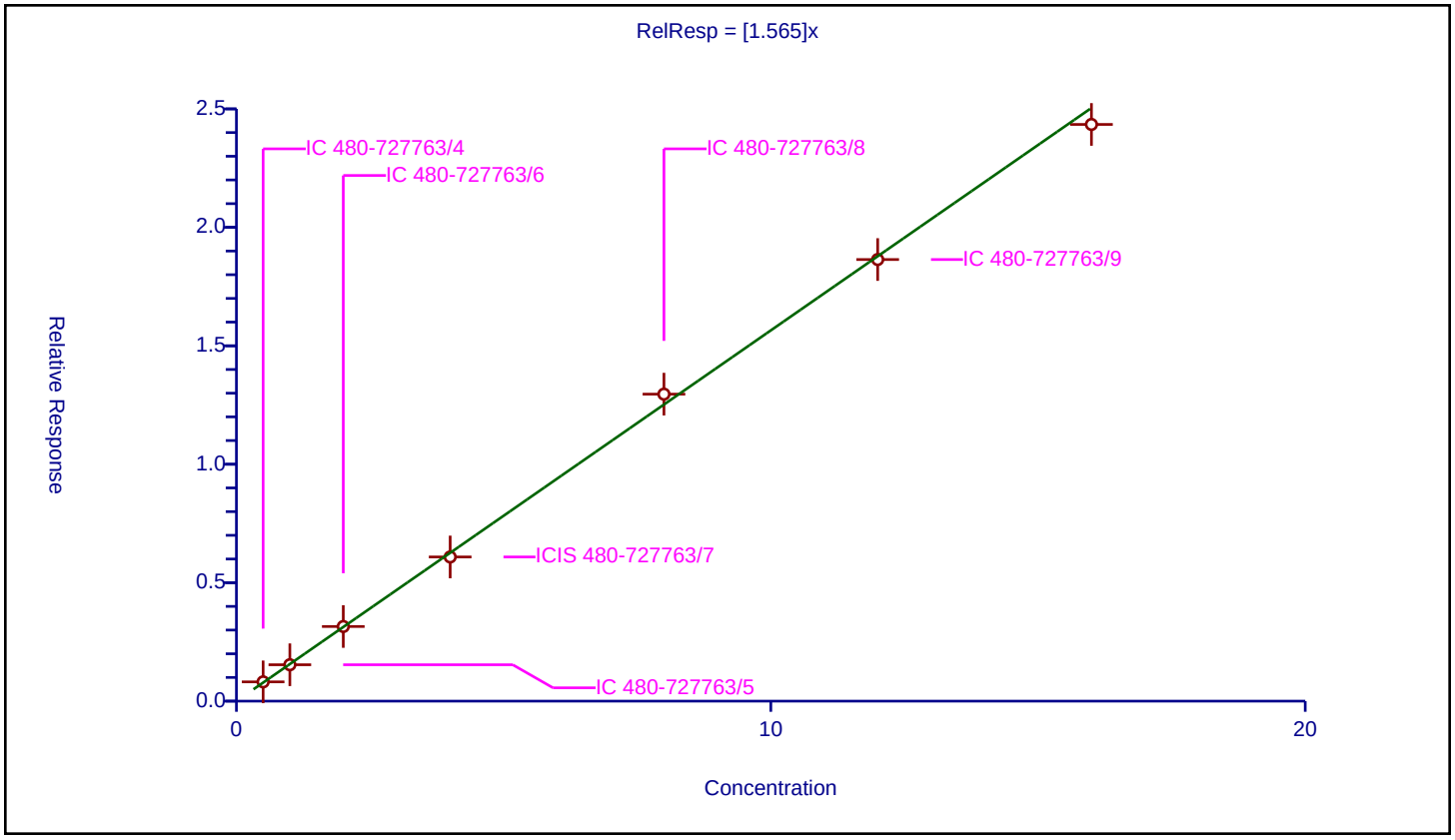
Curve Coefficients

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

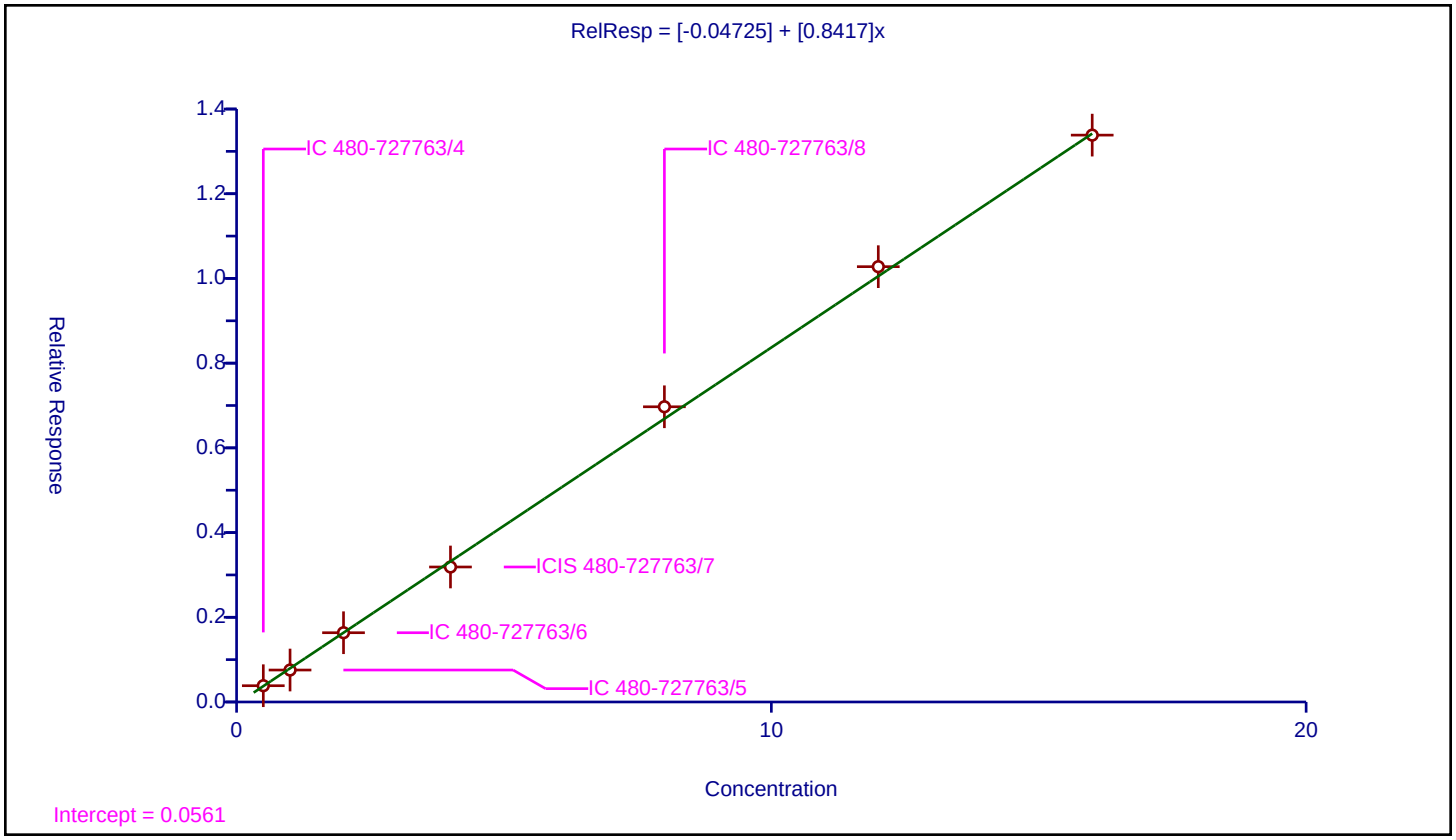
Curve Coefficients

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



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

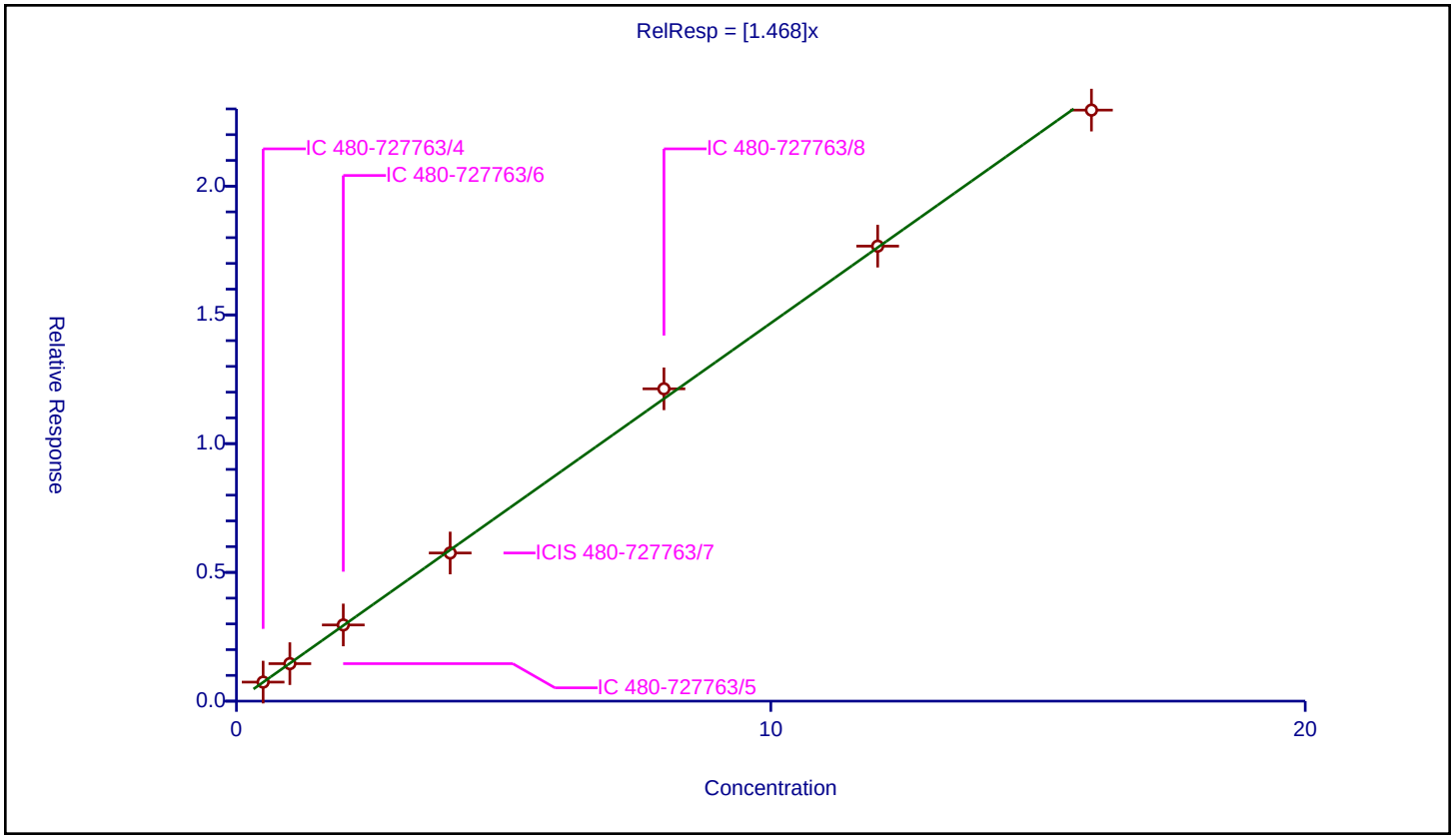
Curve Coefficients

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

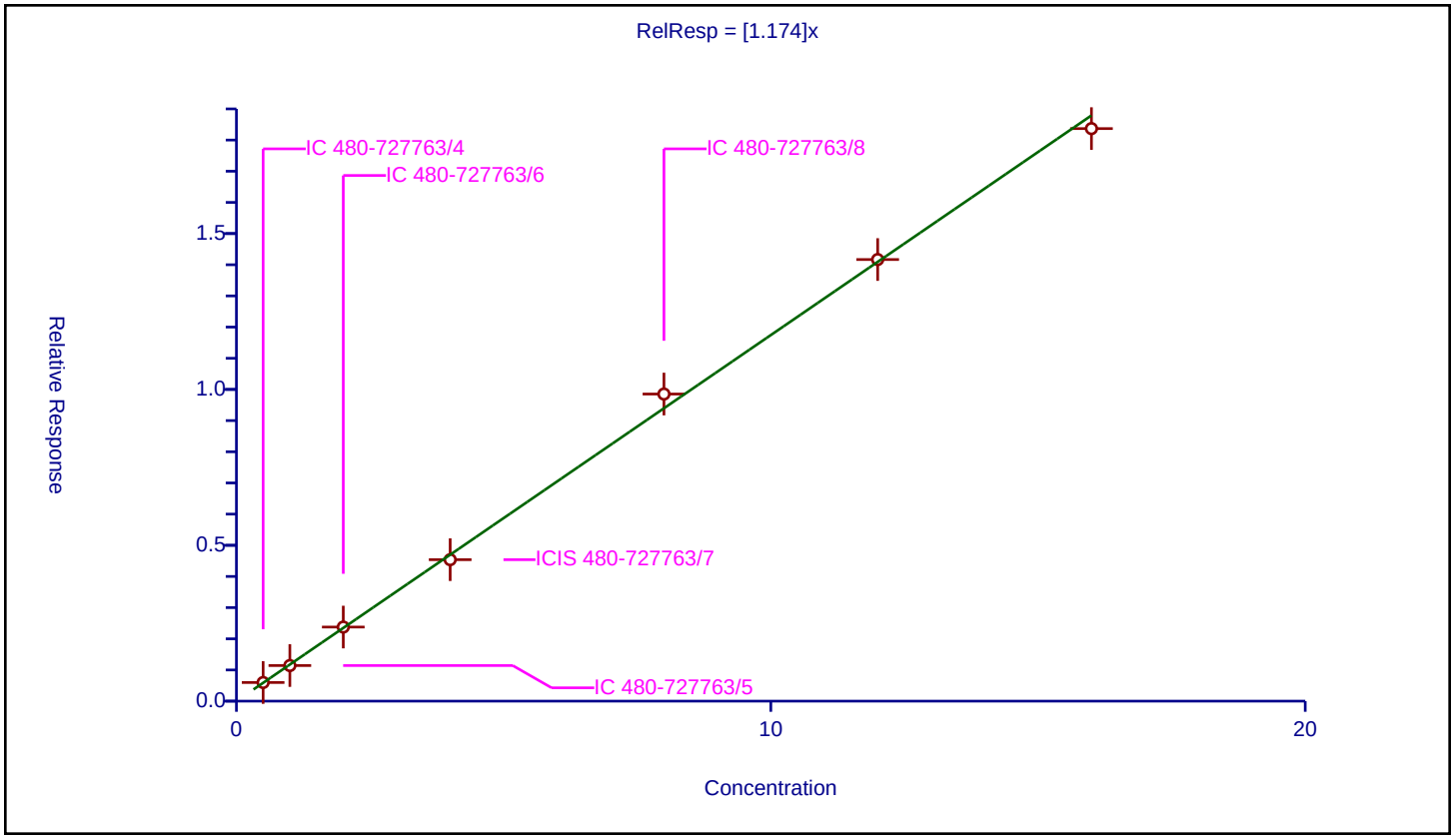
Curve Coefficients

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

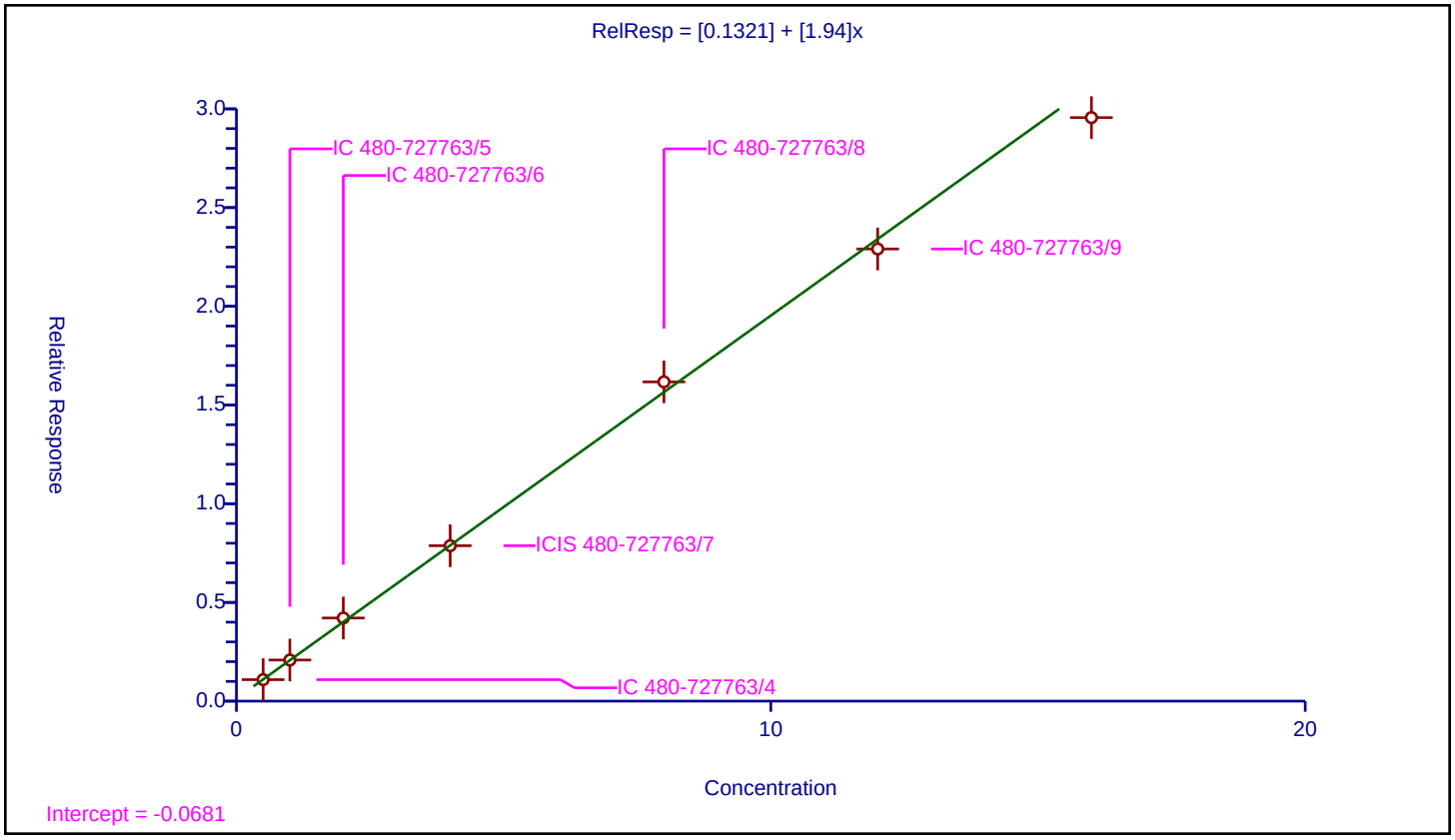
Curve Coefficients

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

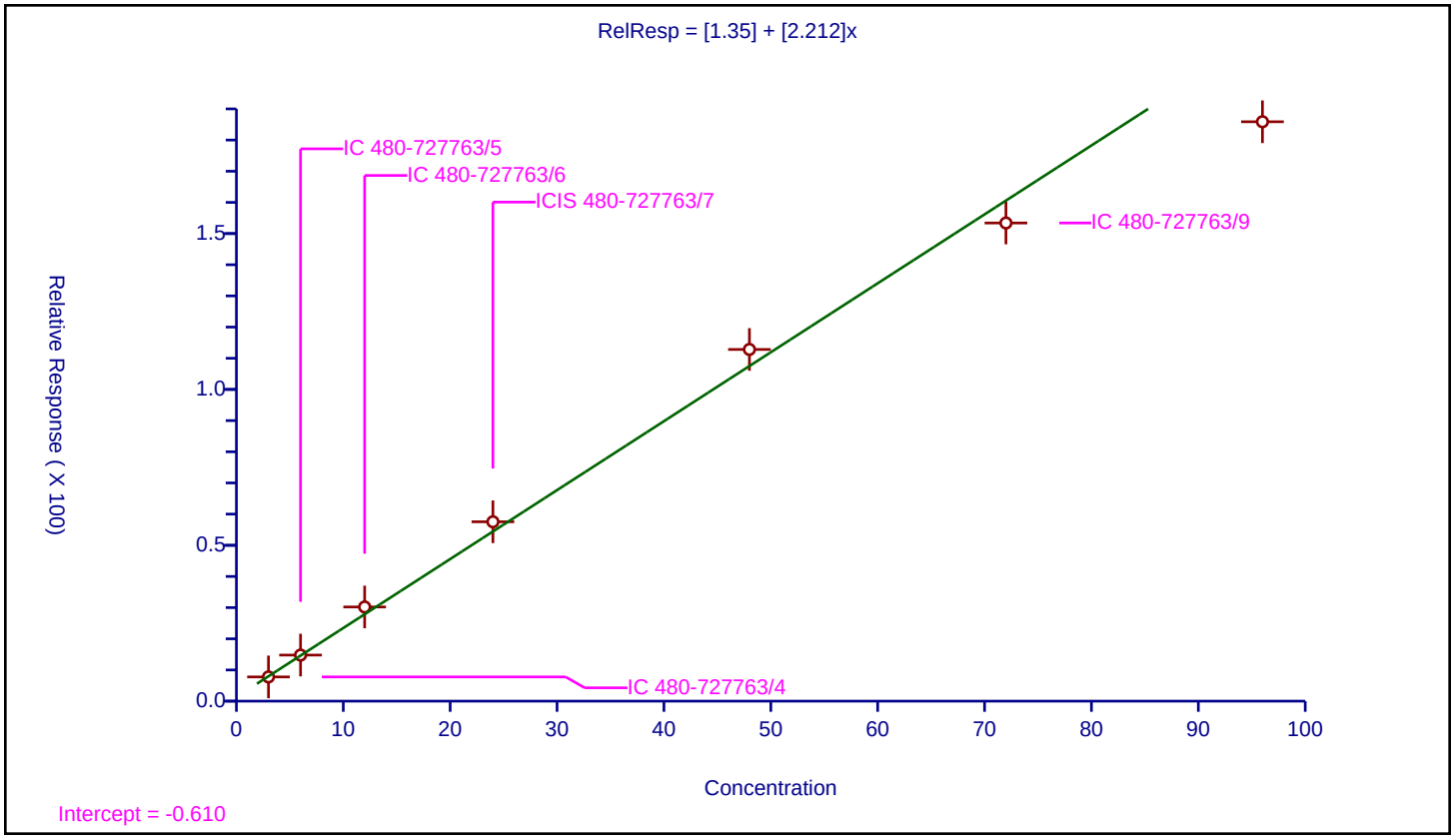
Curve Coefficients

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



Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

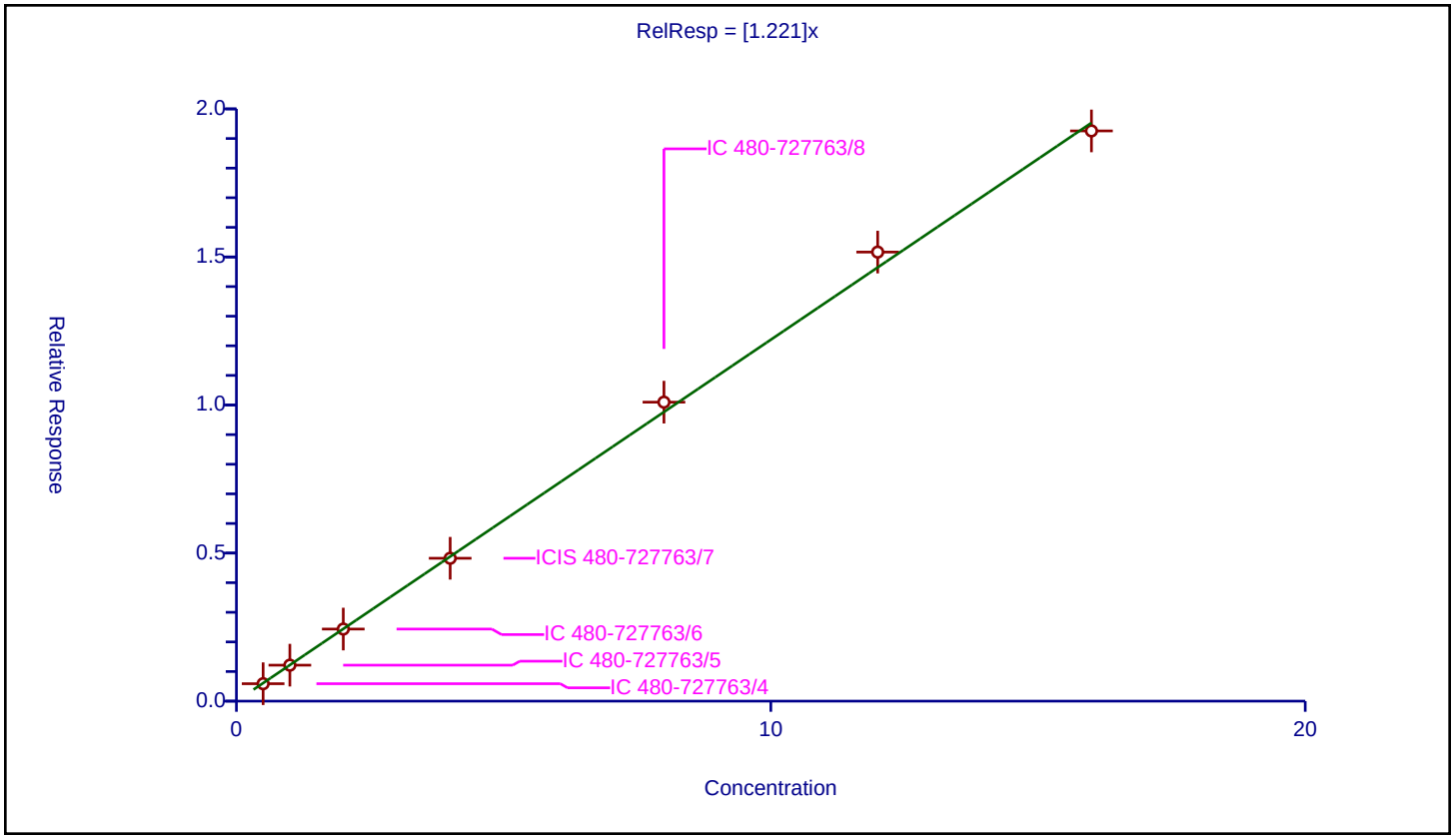
Curve Coefficients

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

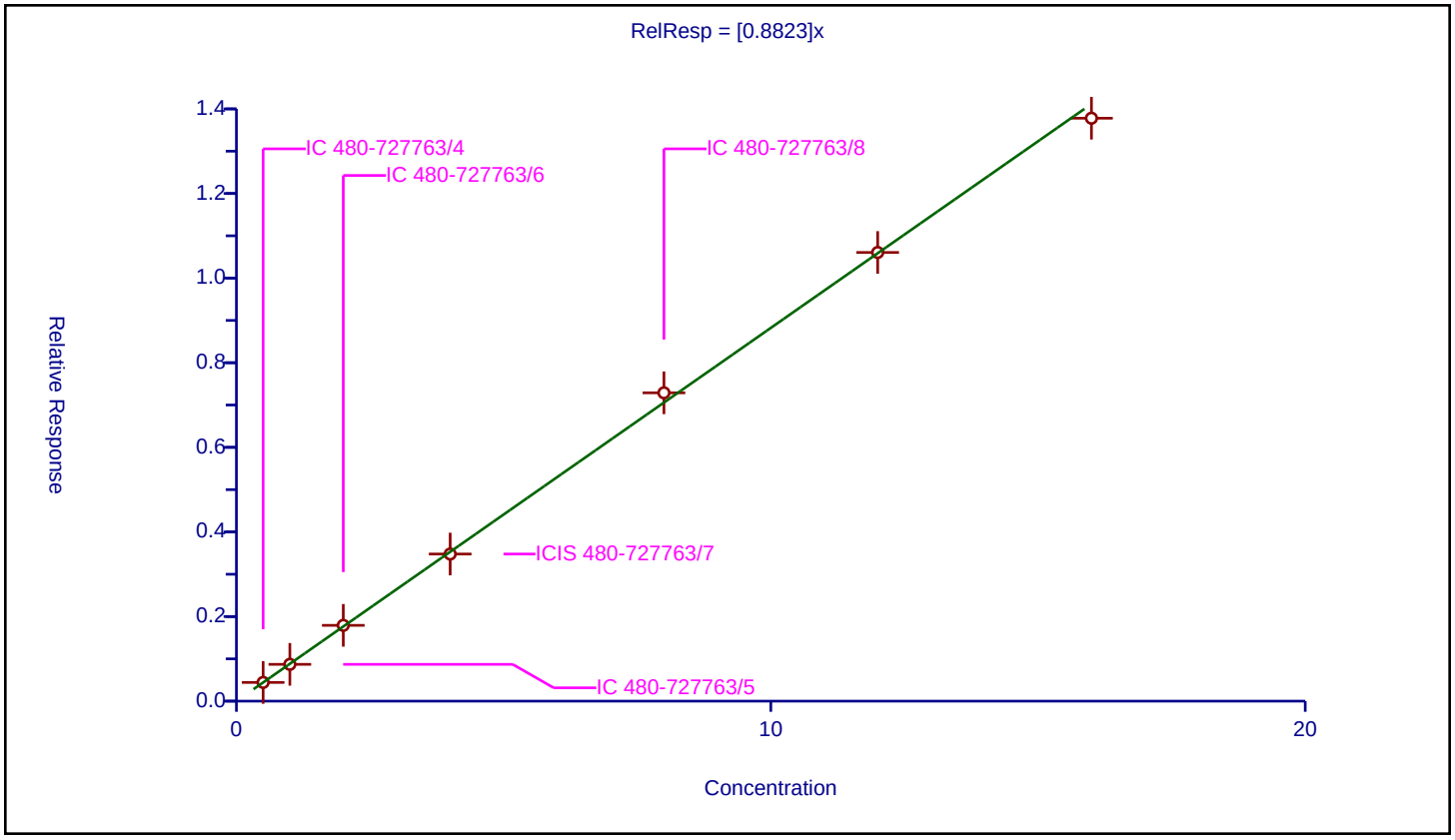
Curve Coefficients

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

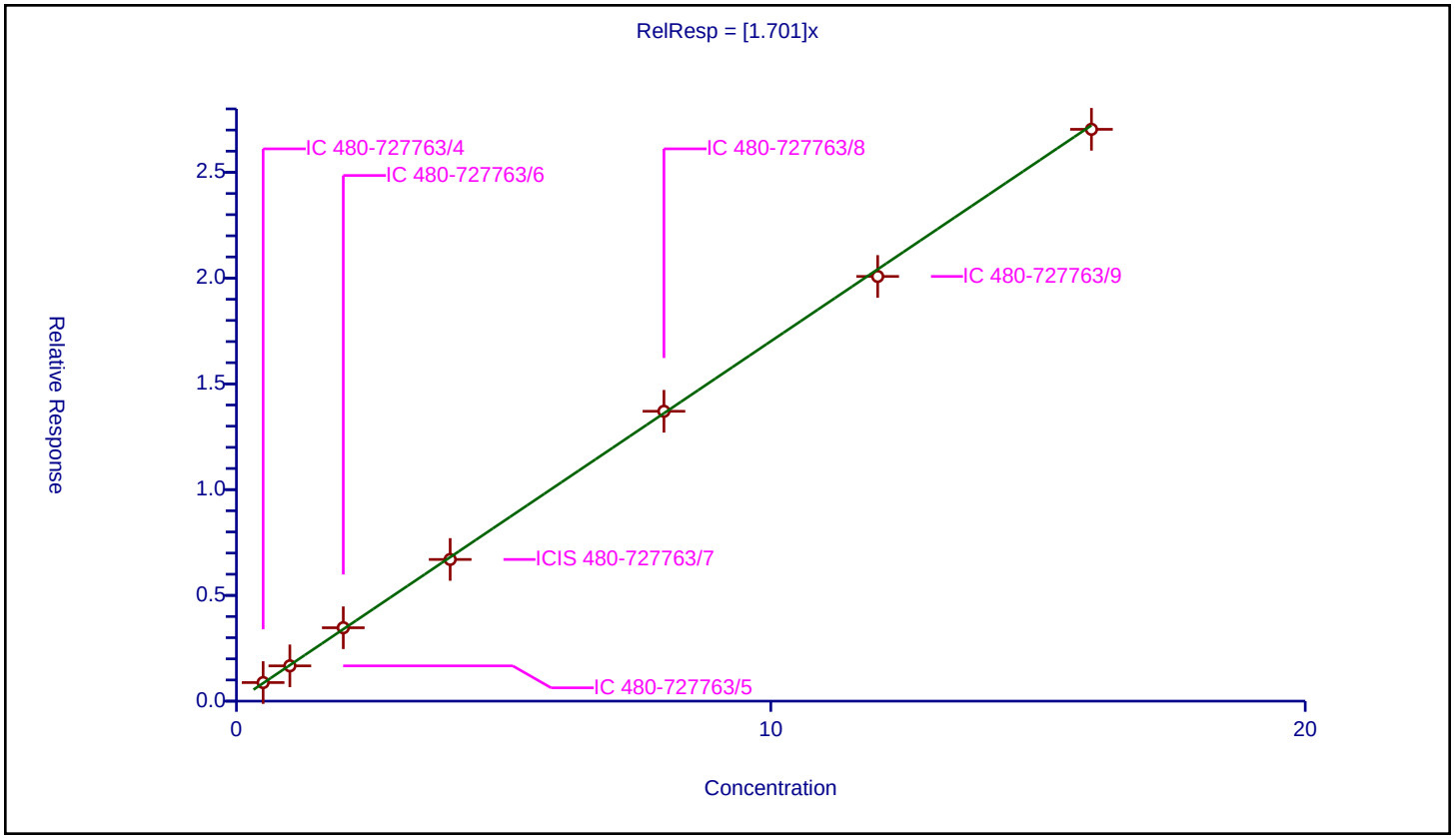
Curve Coefficients

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

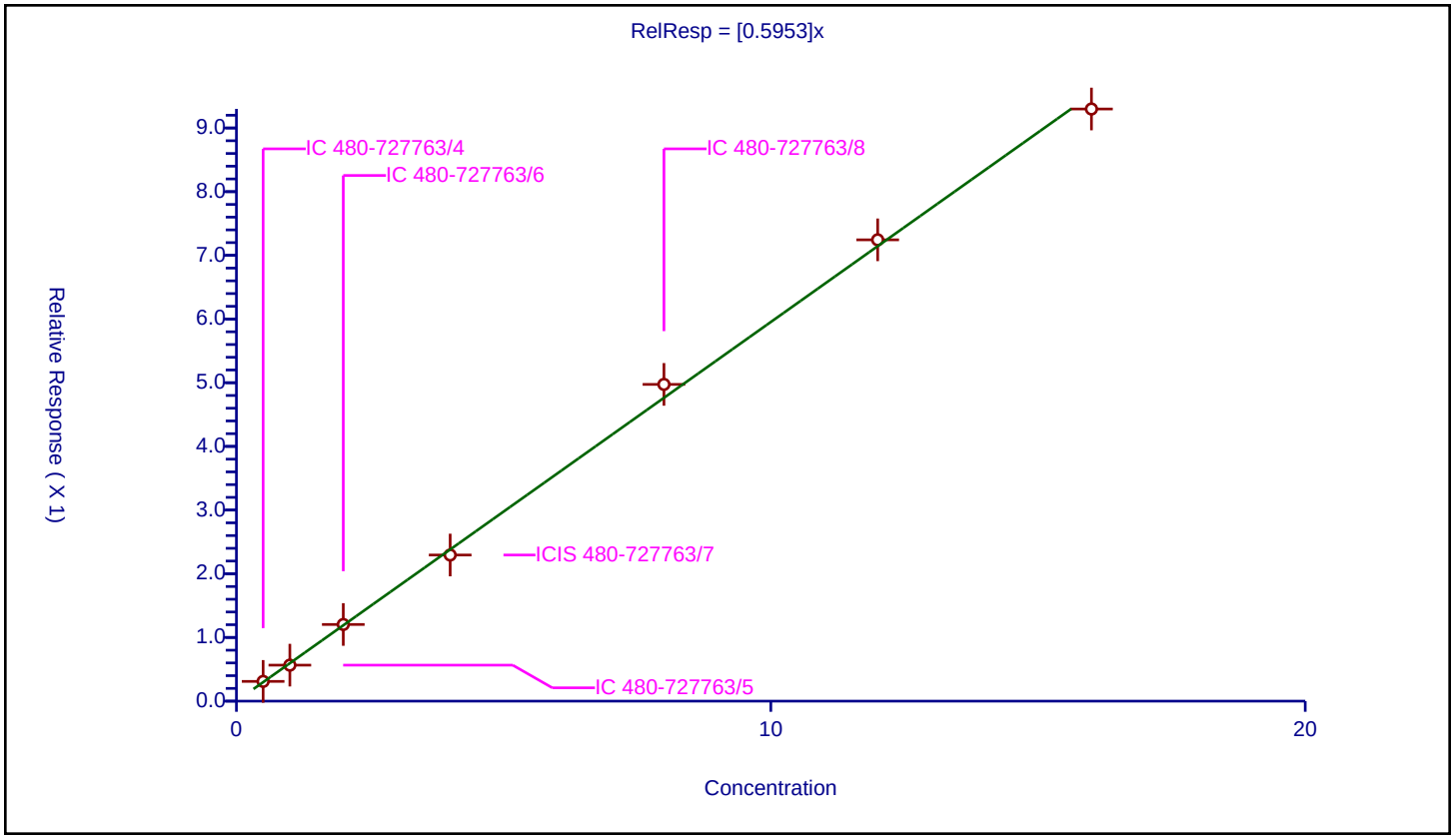
Curve Coefficients

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

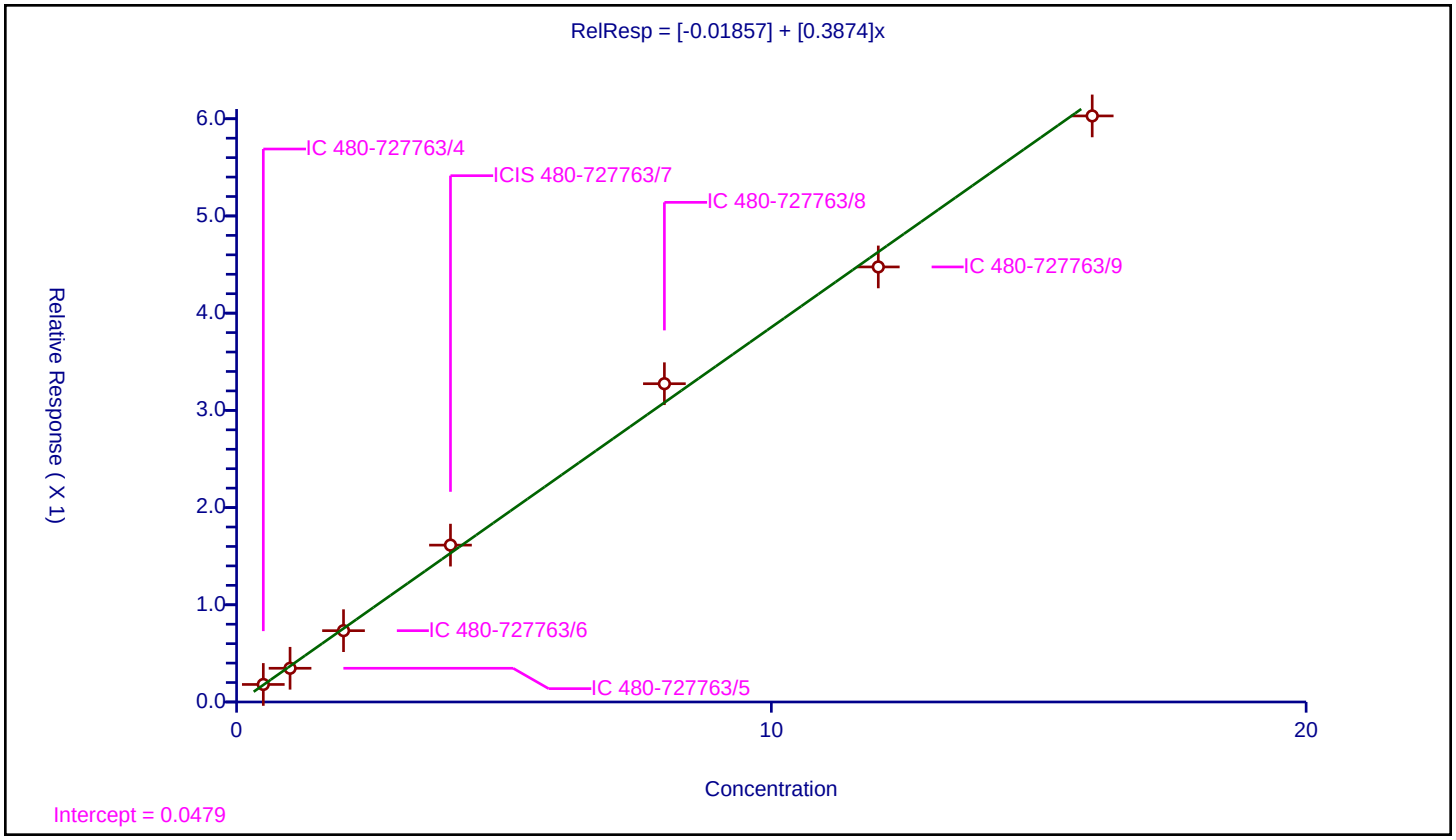
Curve Coefficients

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

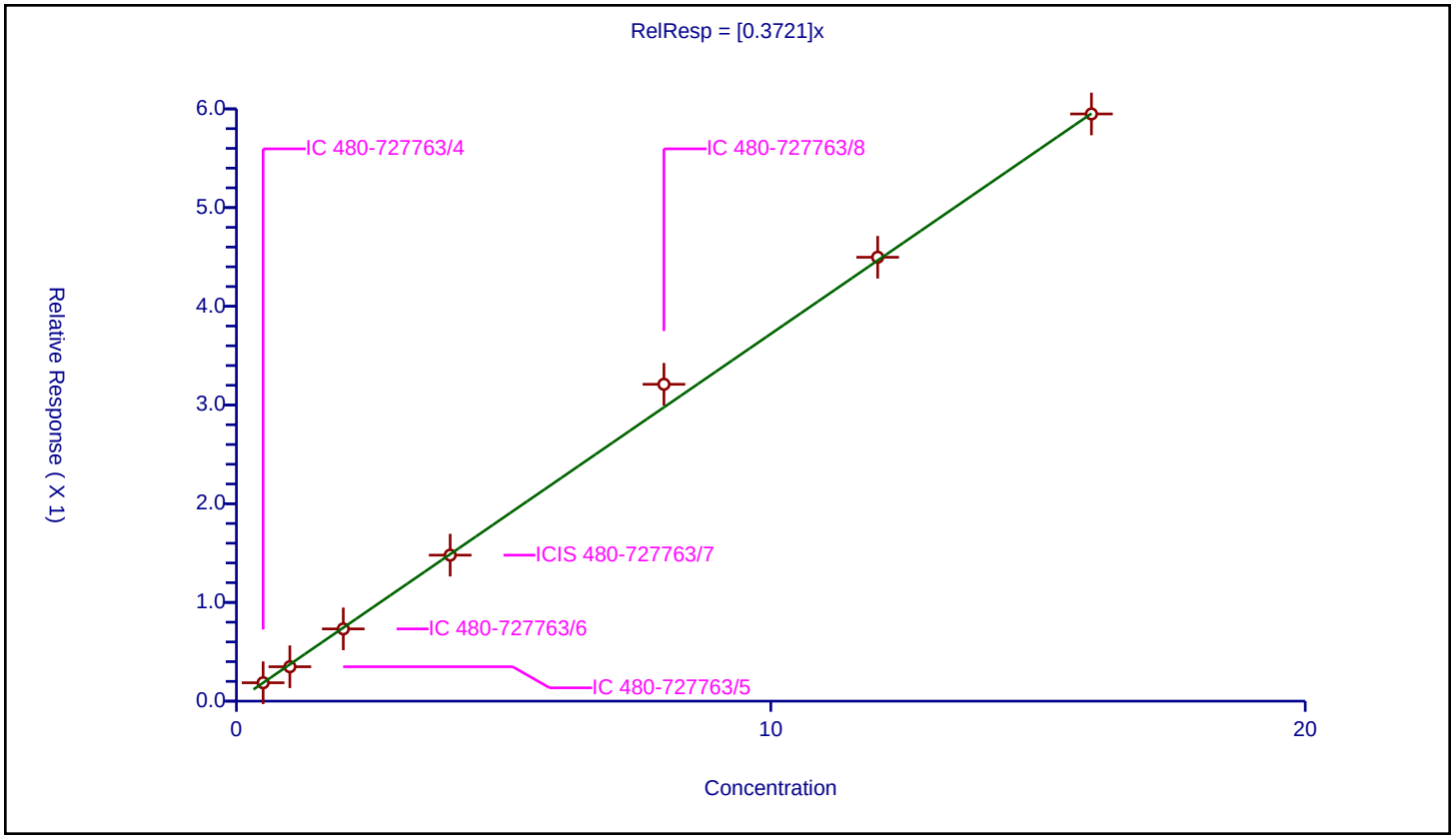
Curve Coefficients

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

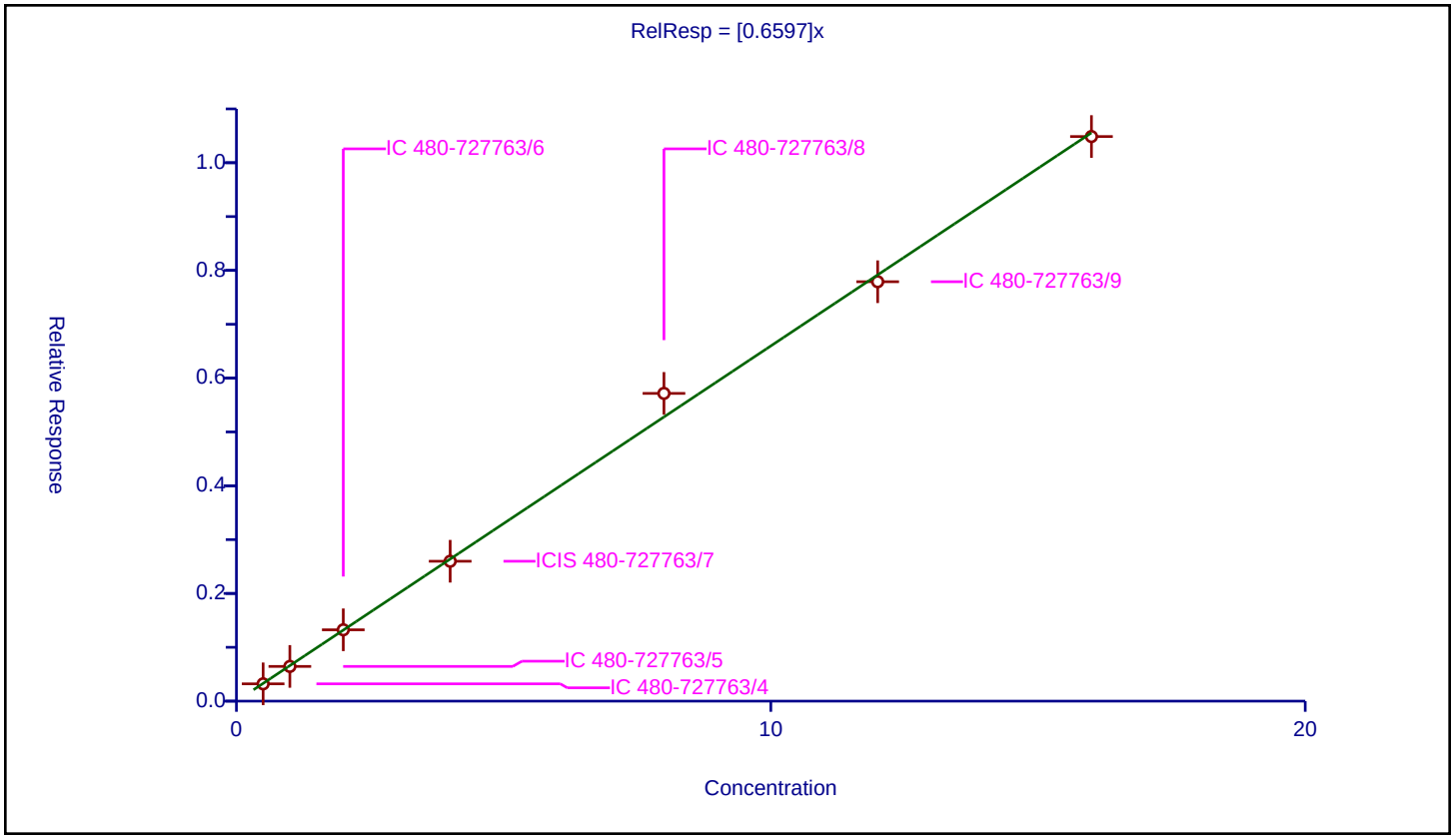
Curve Coefficients

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



Calibration / 2-Nitrophenol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

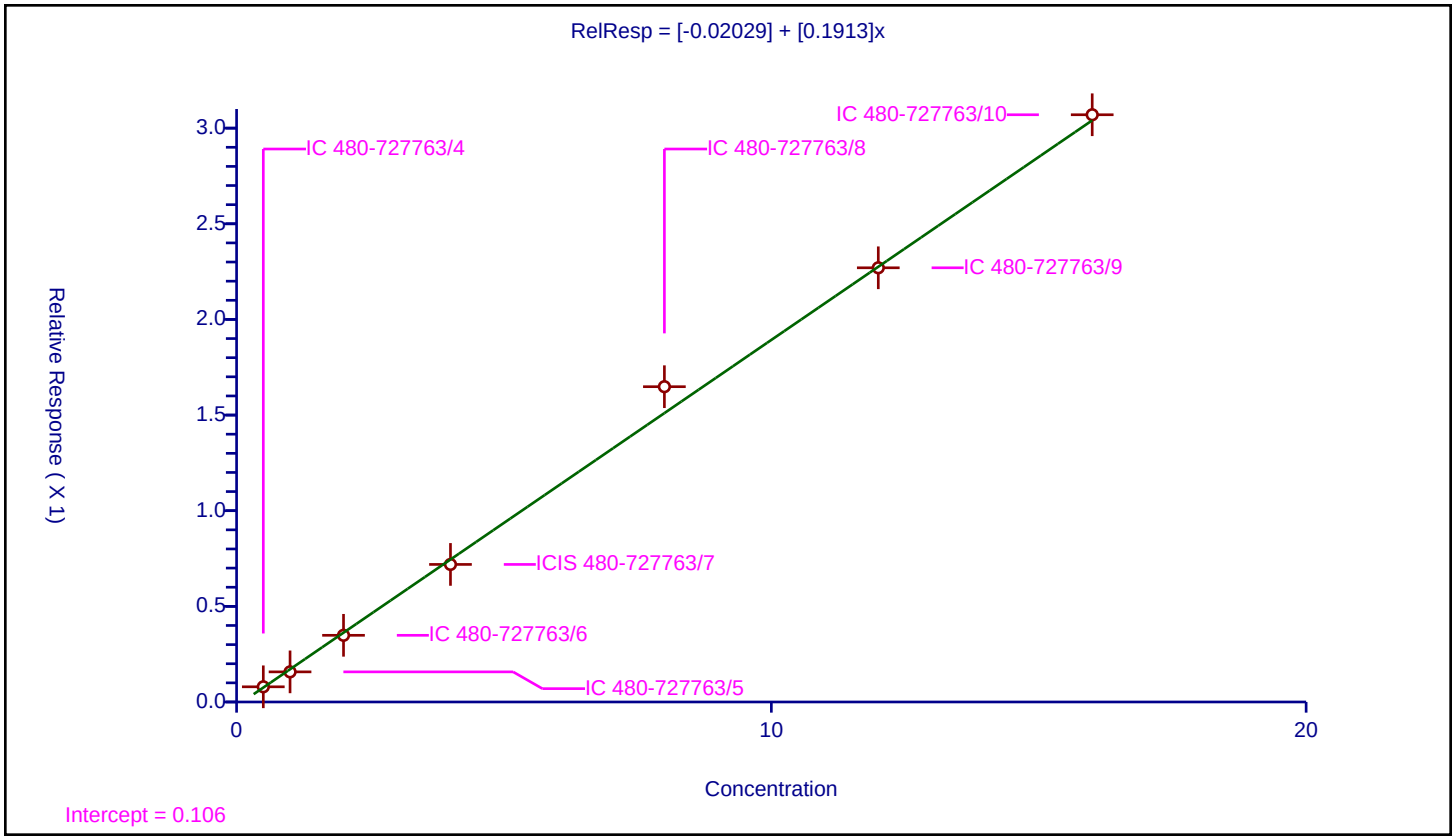
Curve Coefficients

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

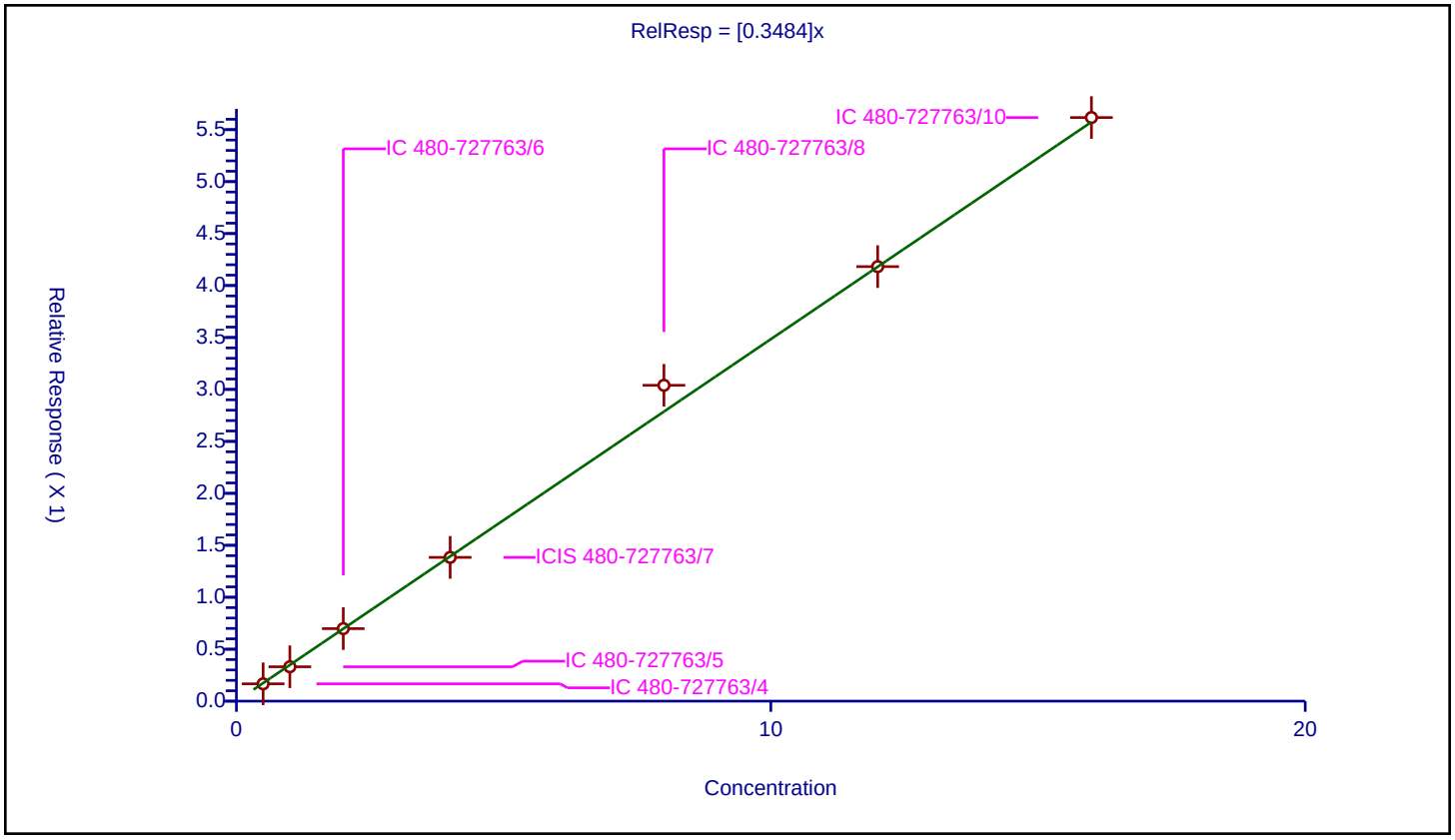
Curve Coefficients

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

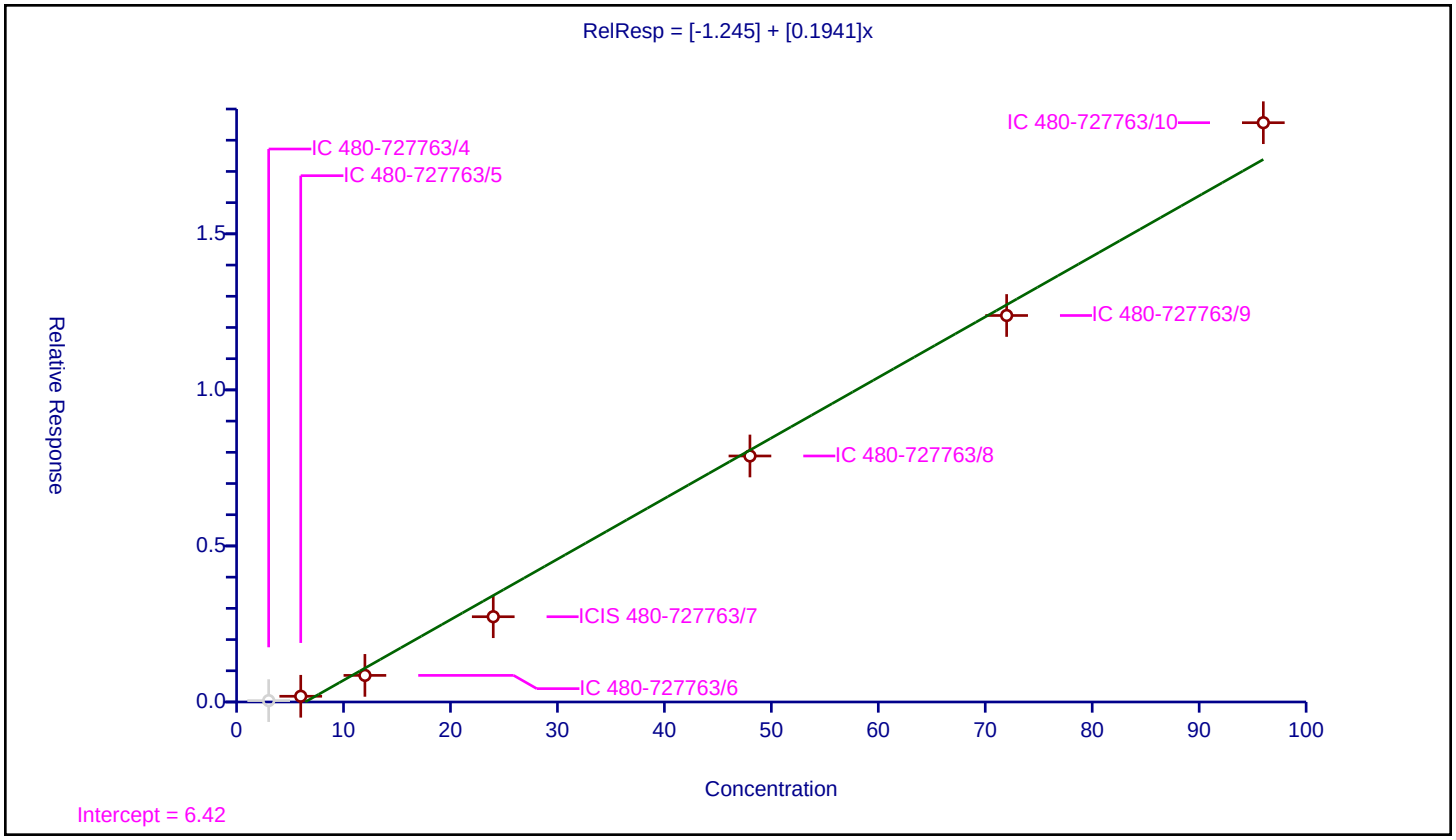
Curve Coefficients

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



Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

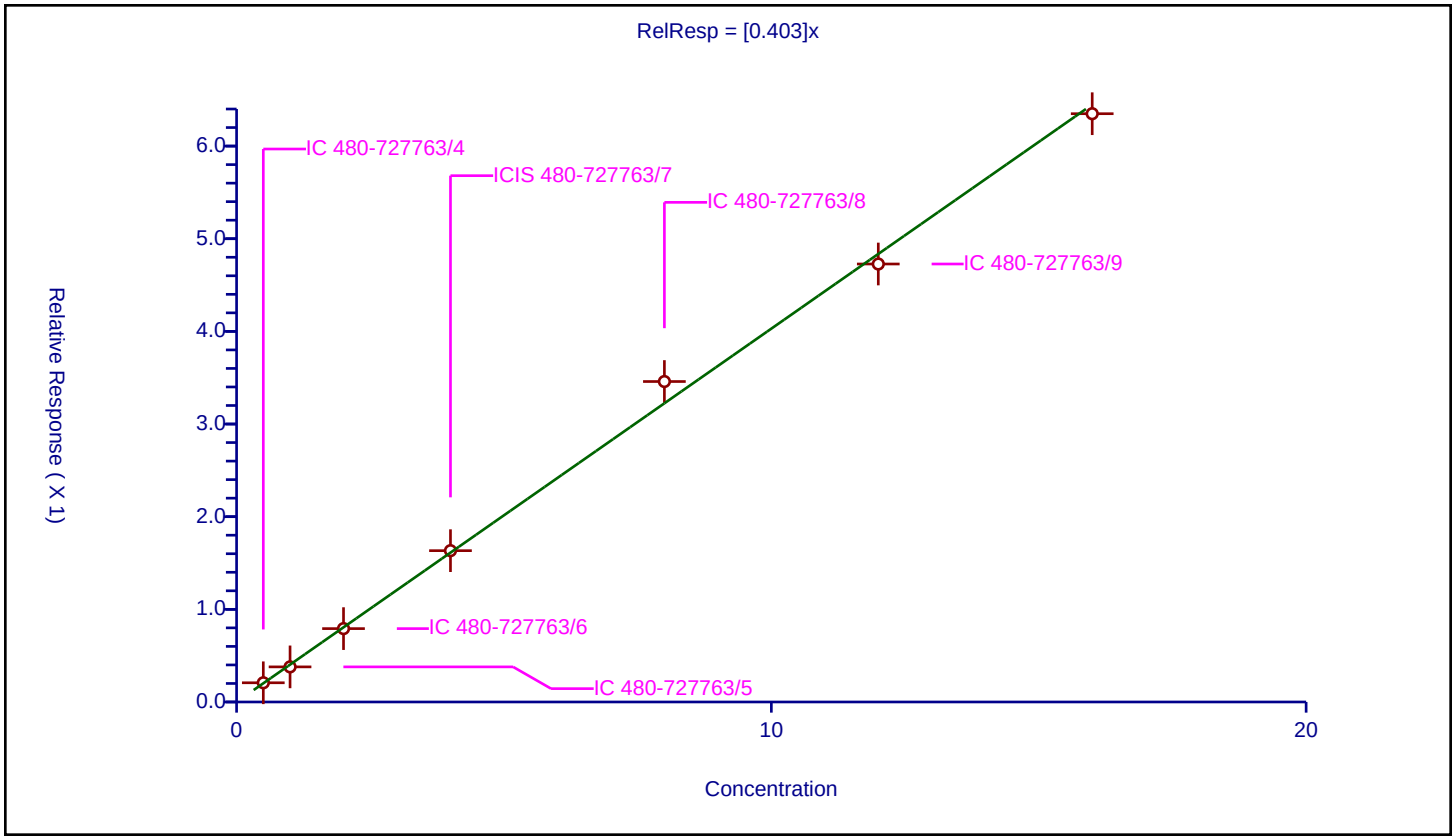
Curve Coefficients

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

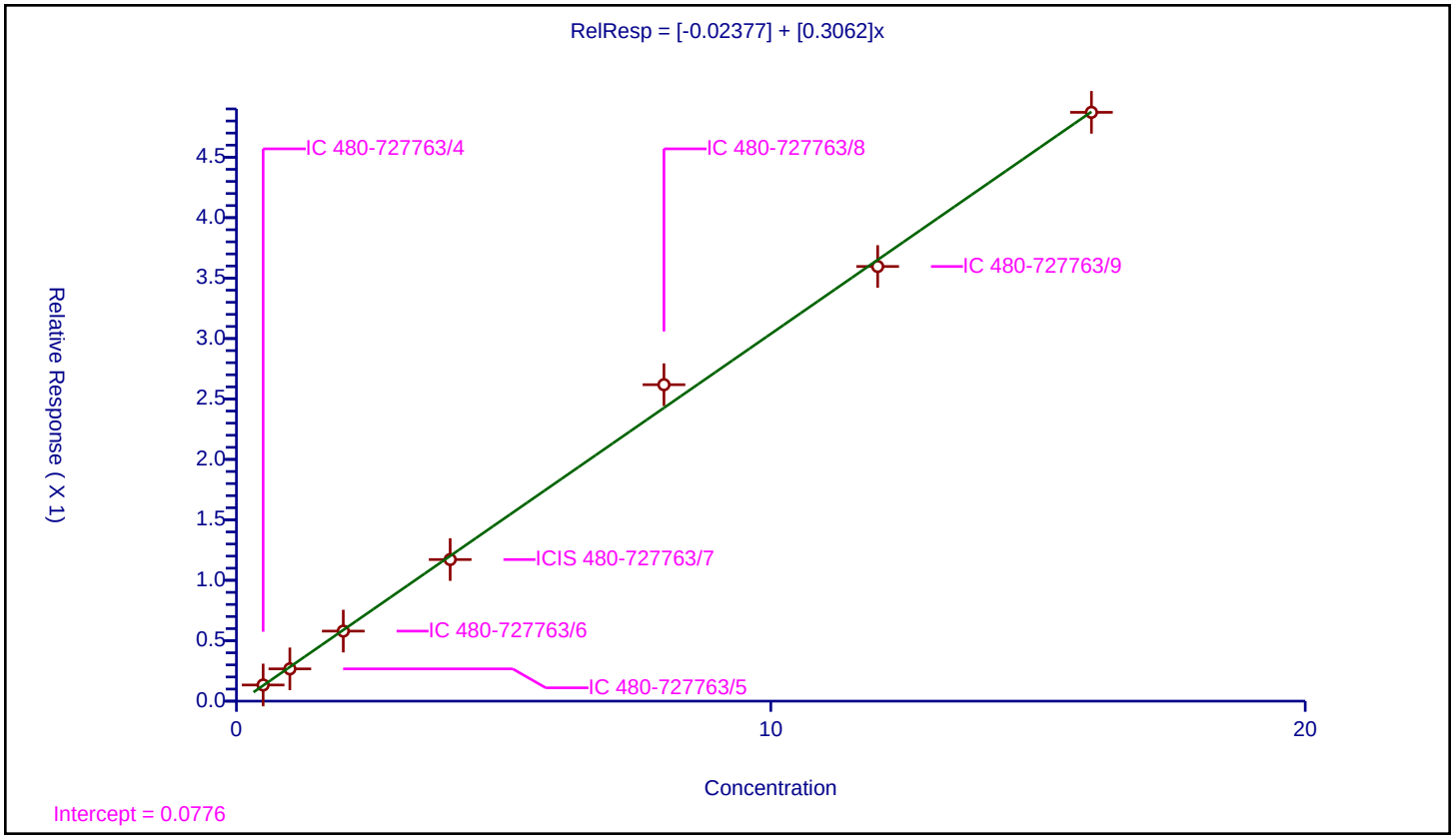
Curve Coefficients

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

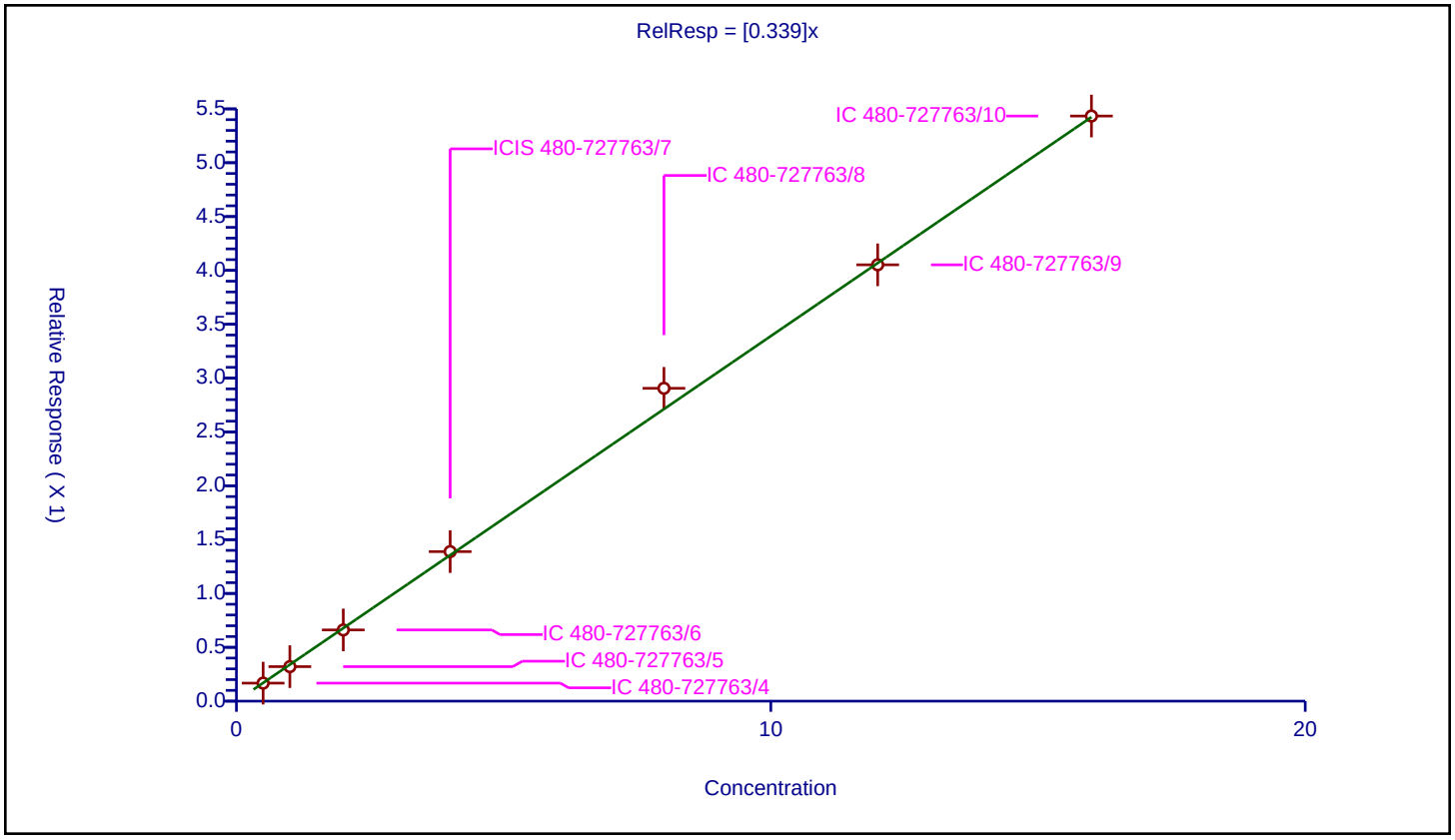
Curve Coefficients

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

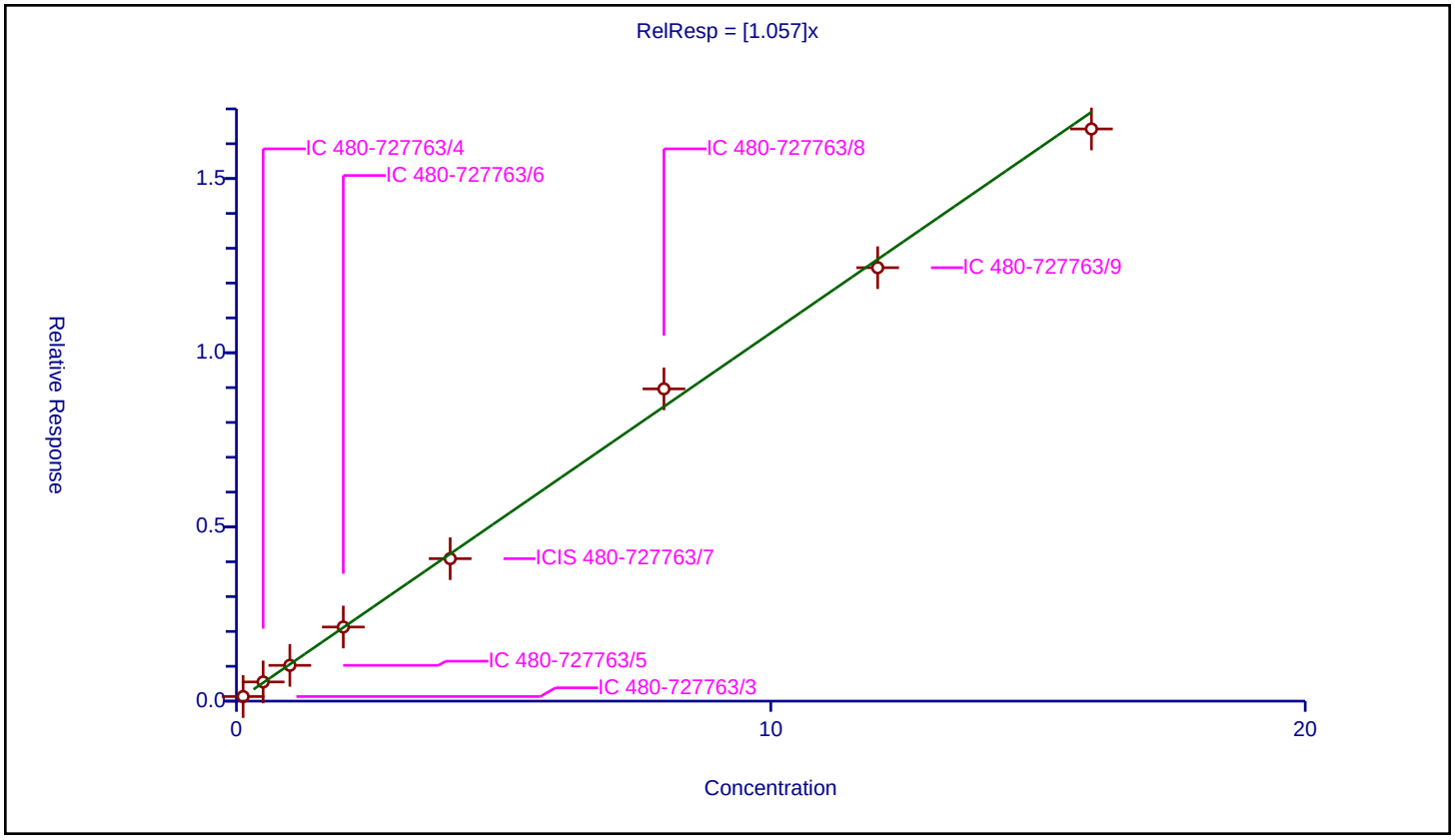
Curve Coefficients

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

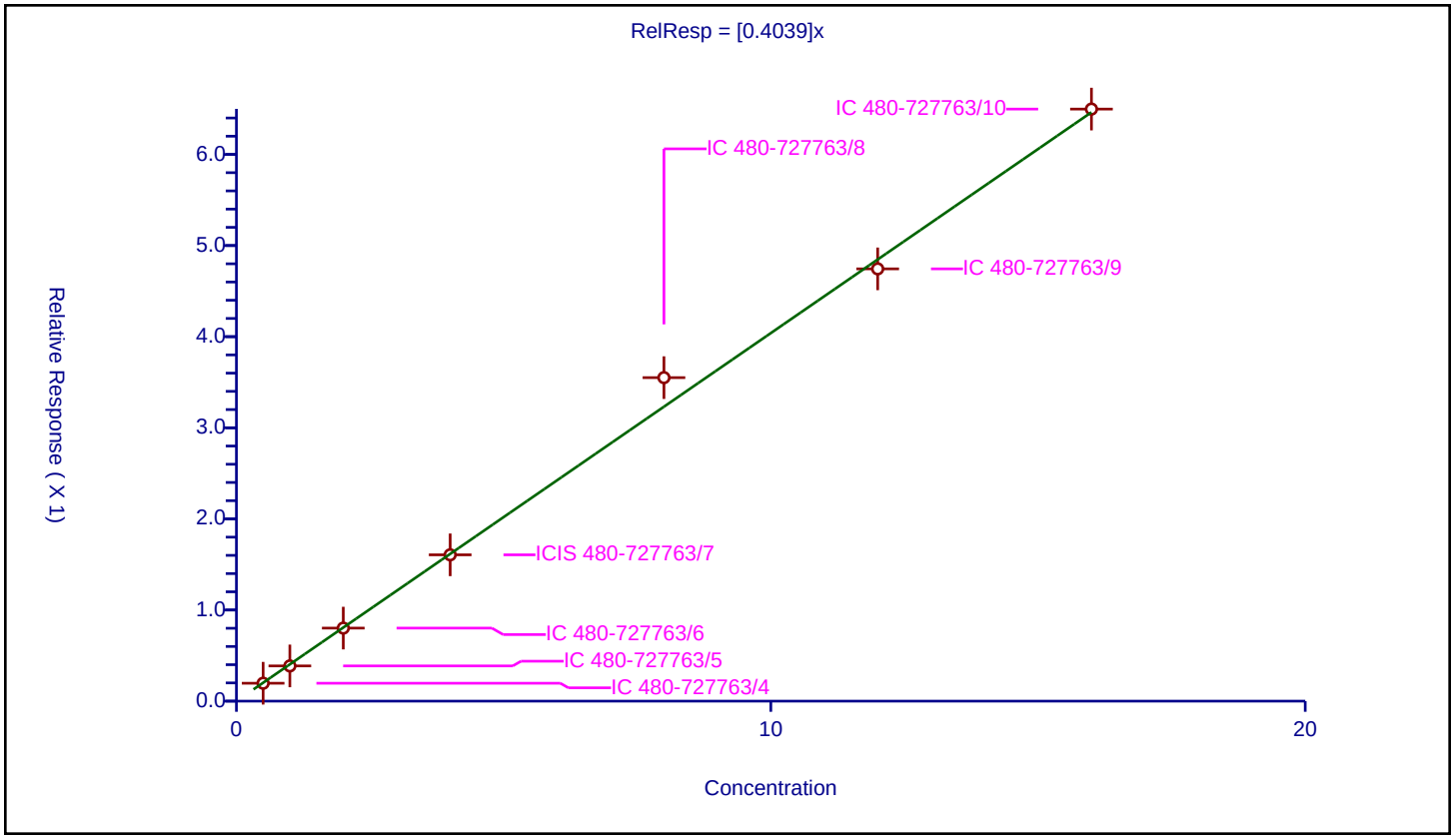
Curve Coefficients

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



Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

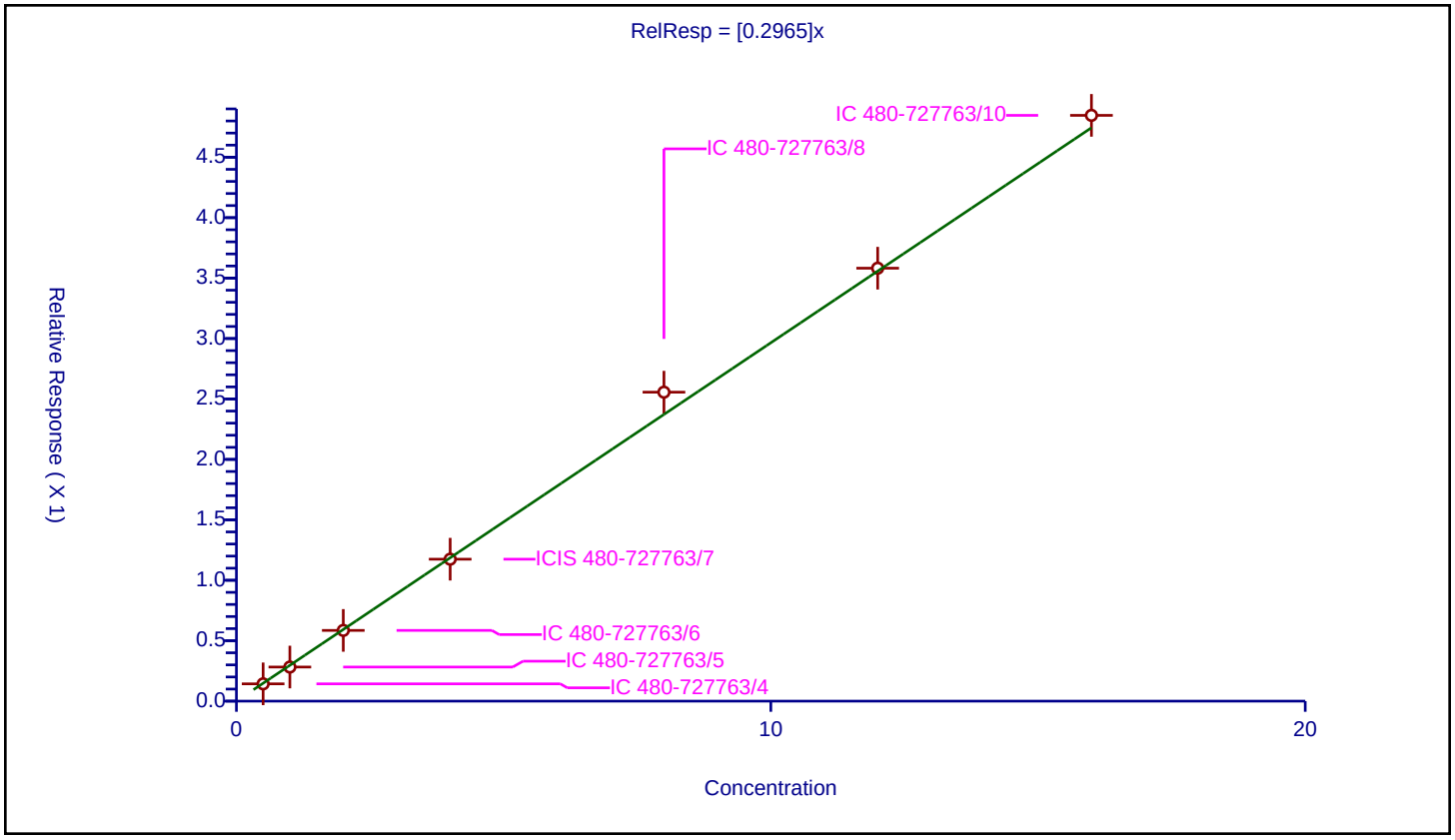
Curve Coefficients

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

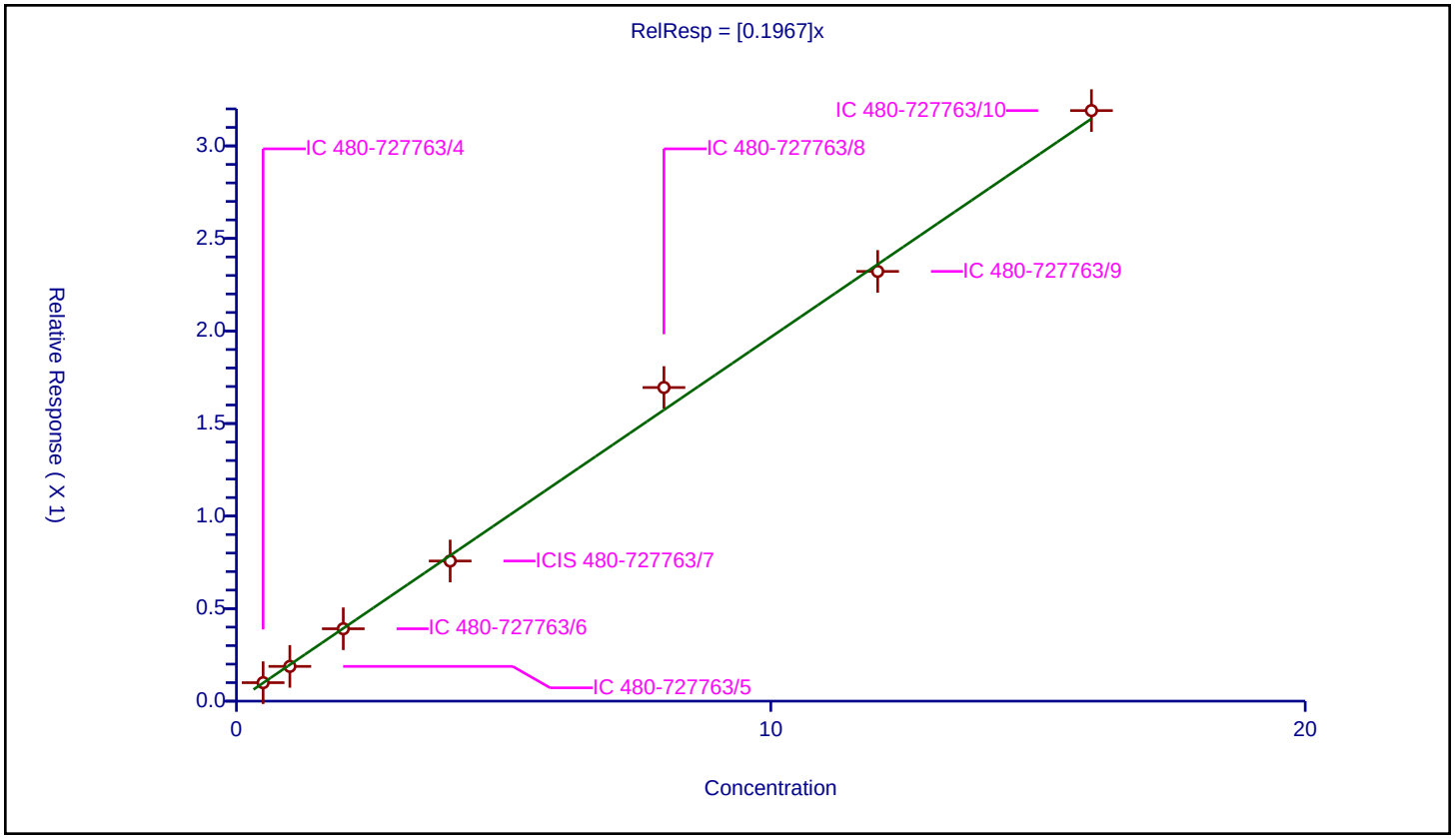
Curve Coefficients

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



Calibration / Caprolactam

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

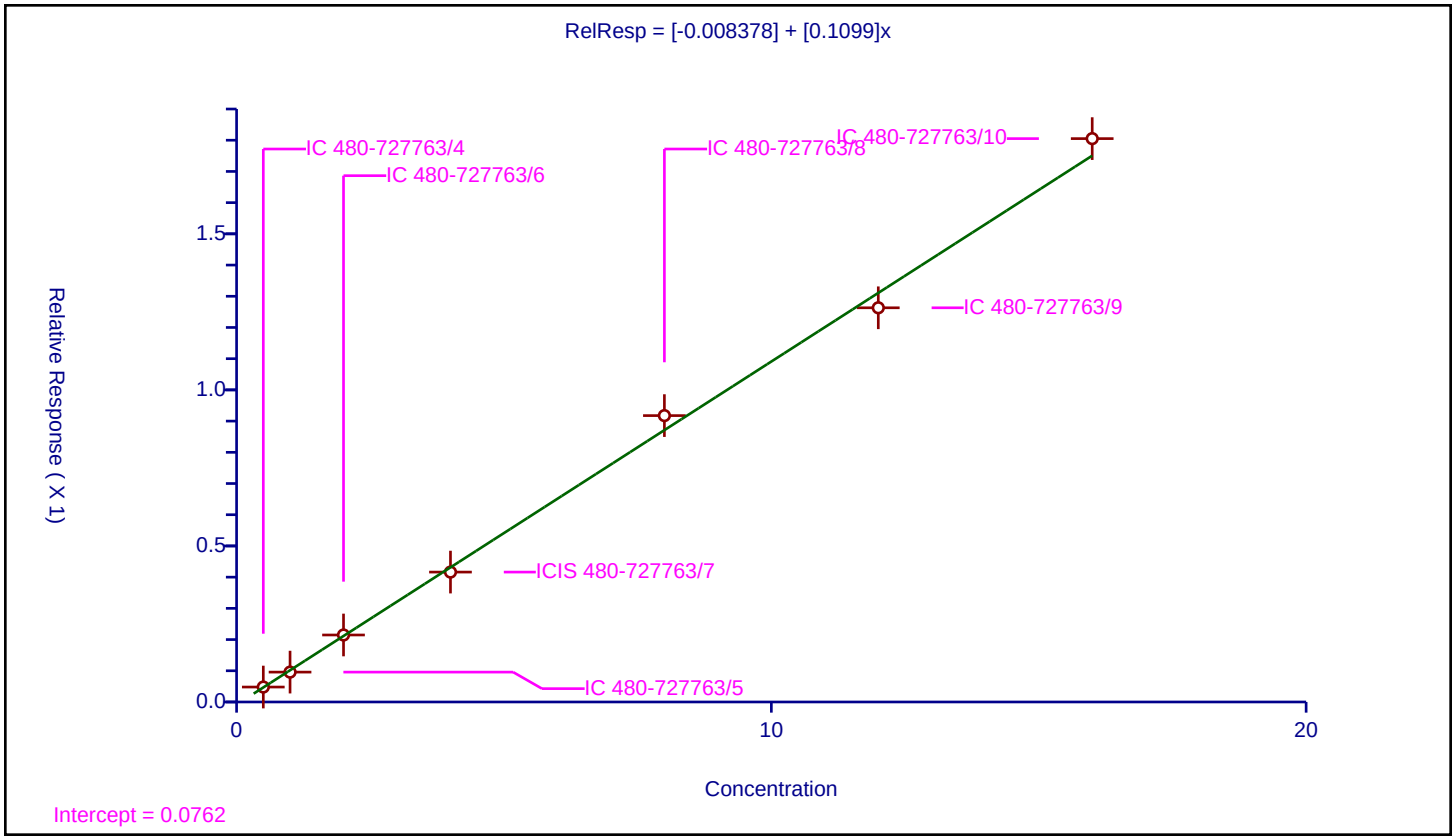
Curve Coefficients

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

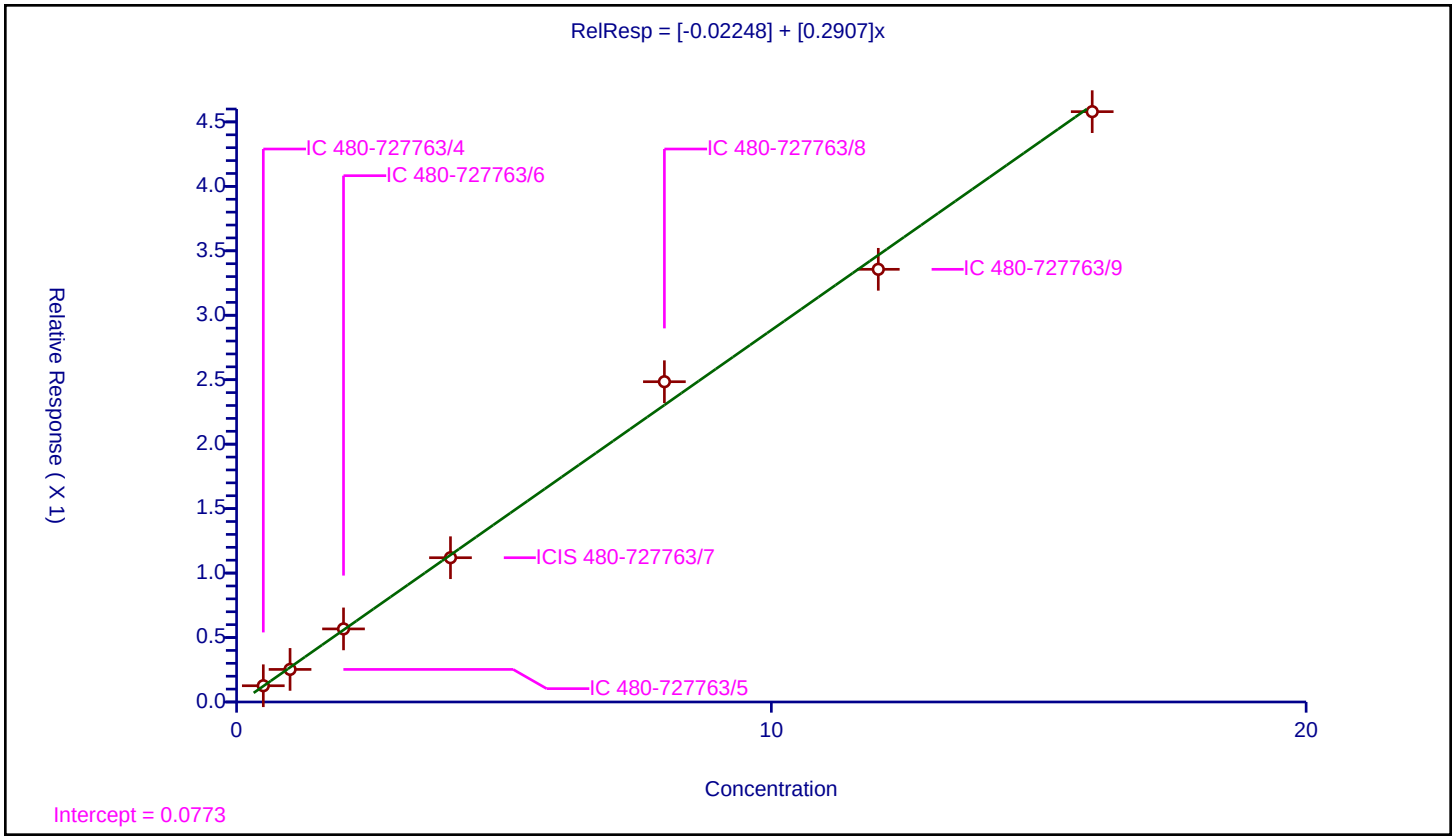
Curve Coefficients

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

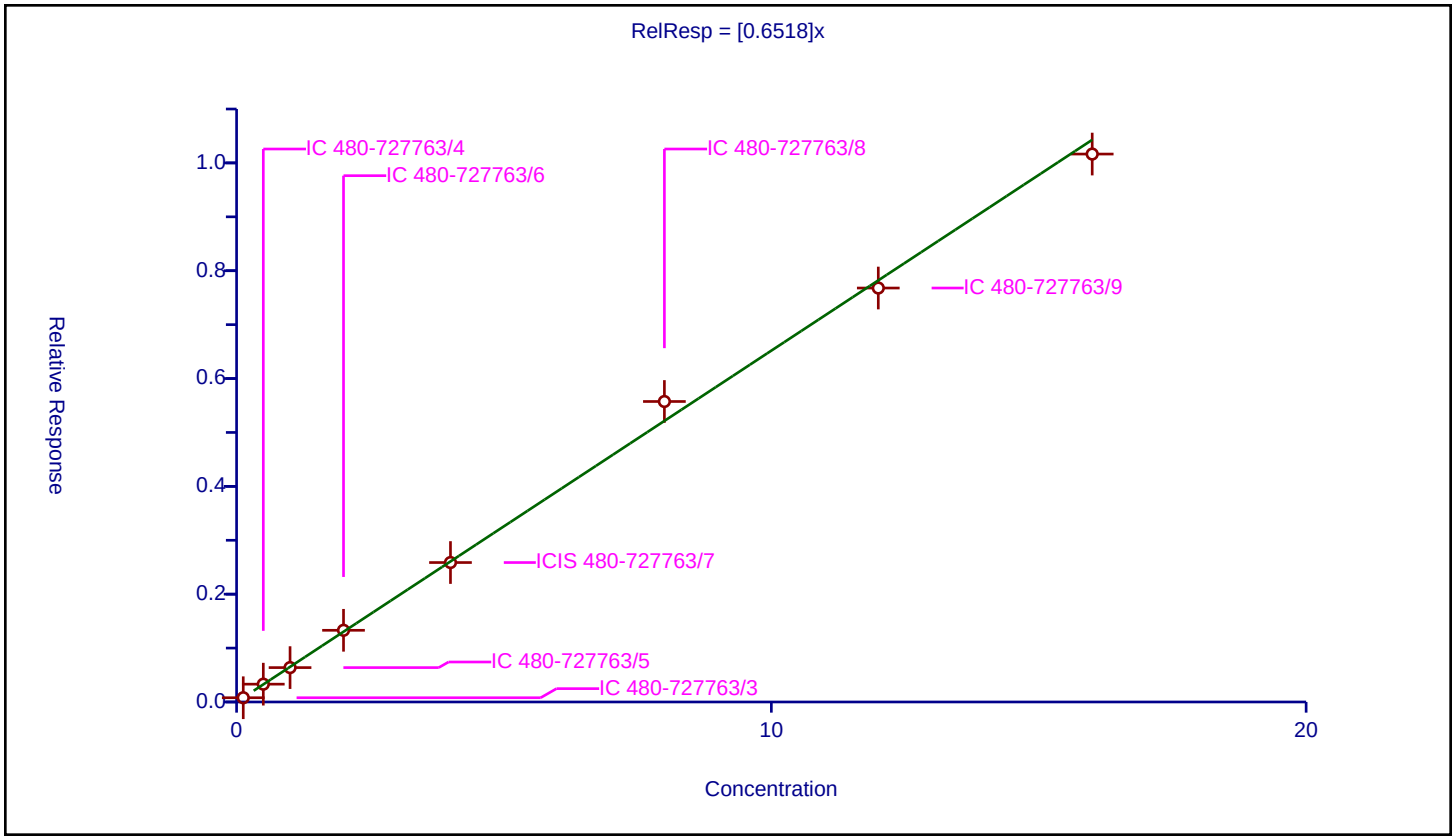
Curve Coefficients

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

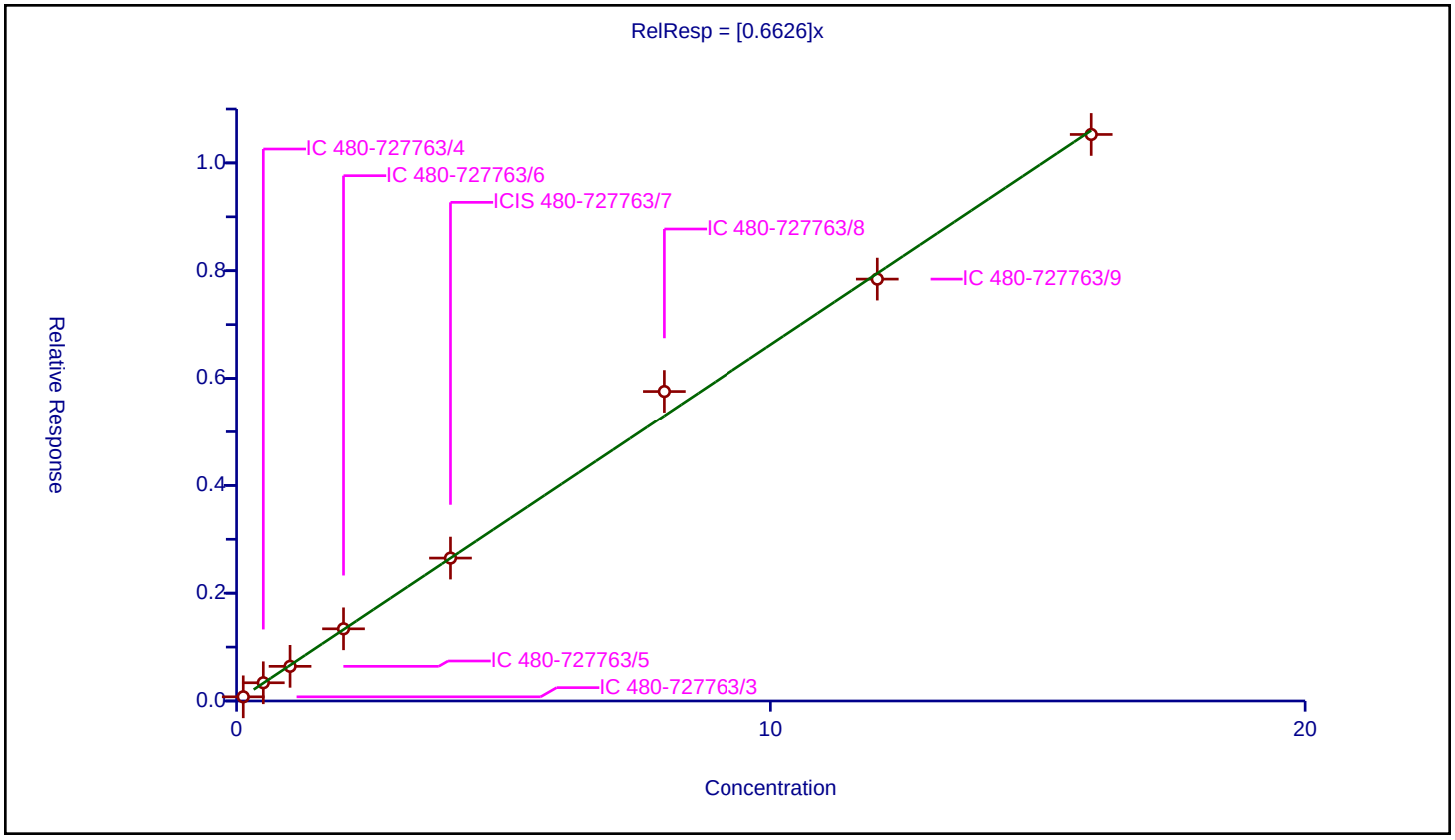
Curve Coefficients

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

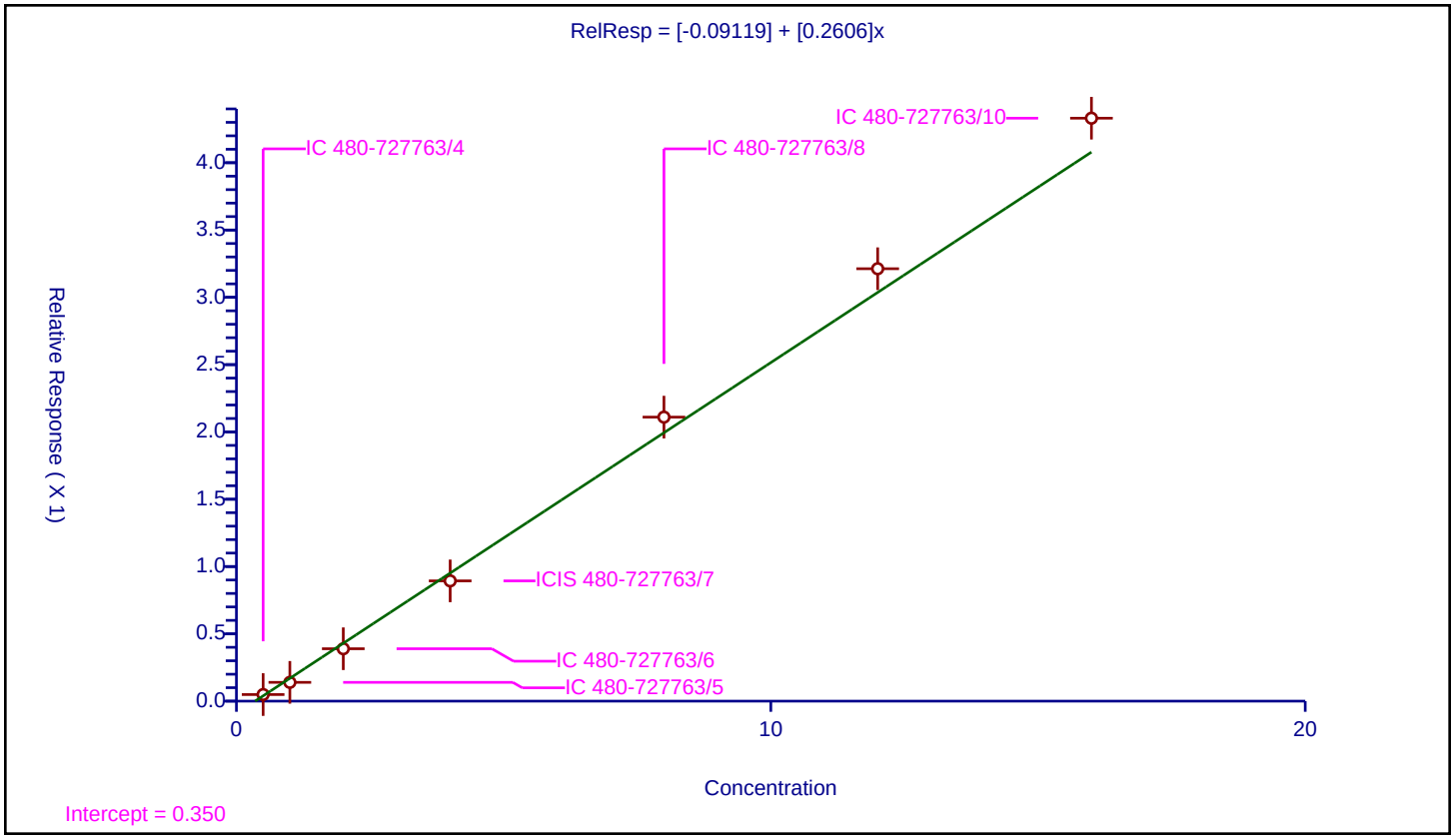
Curve Coefficients

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

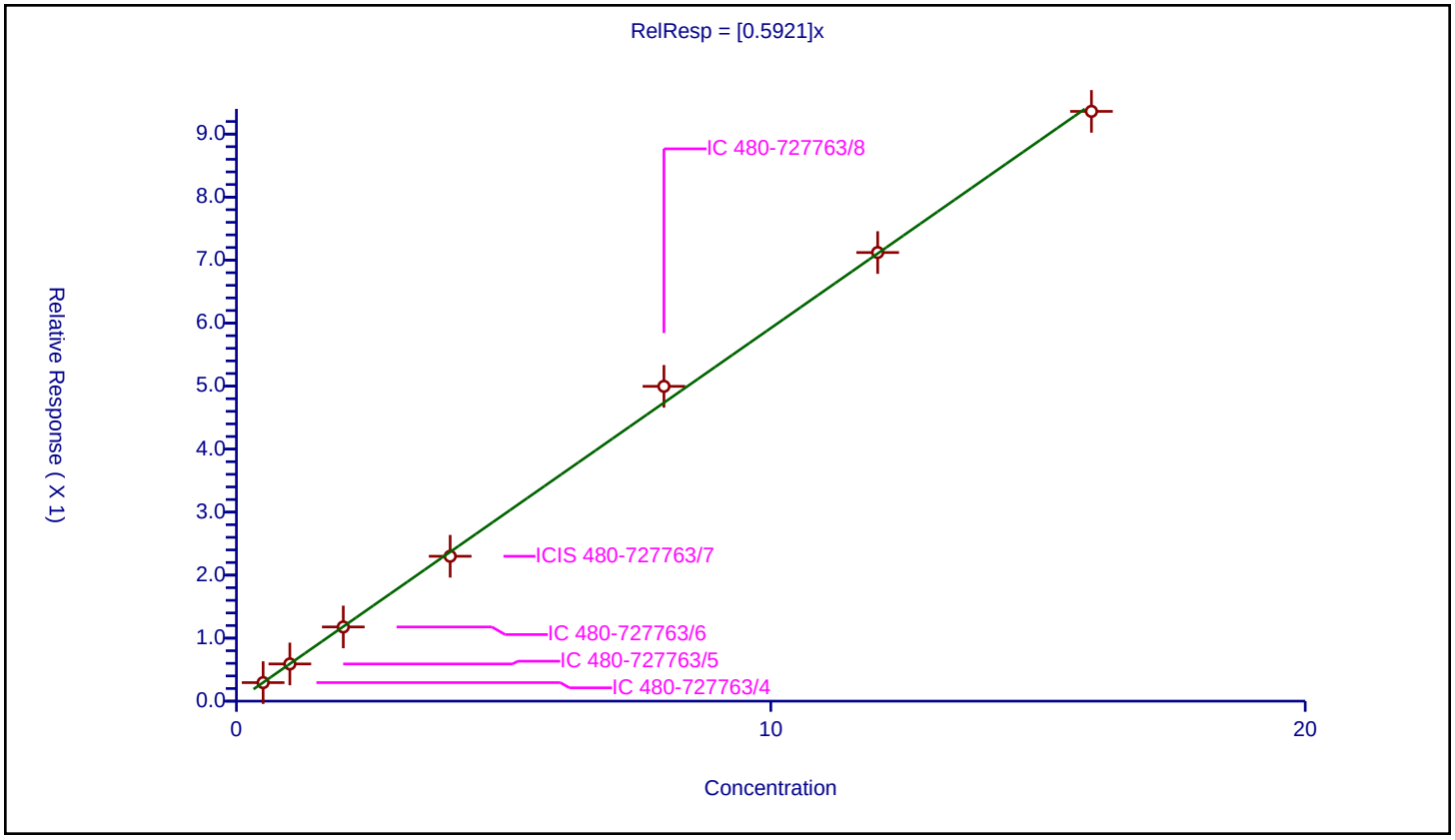
Curve Coefficients

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

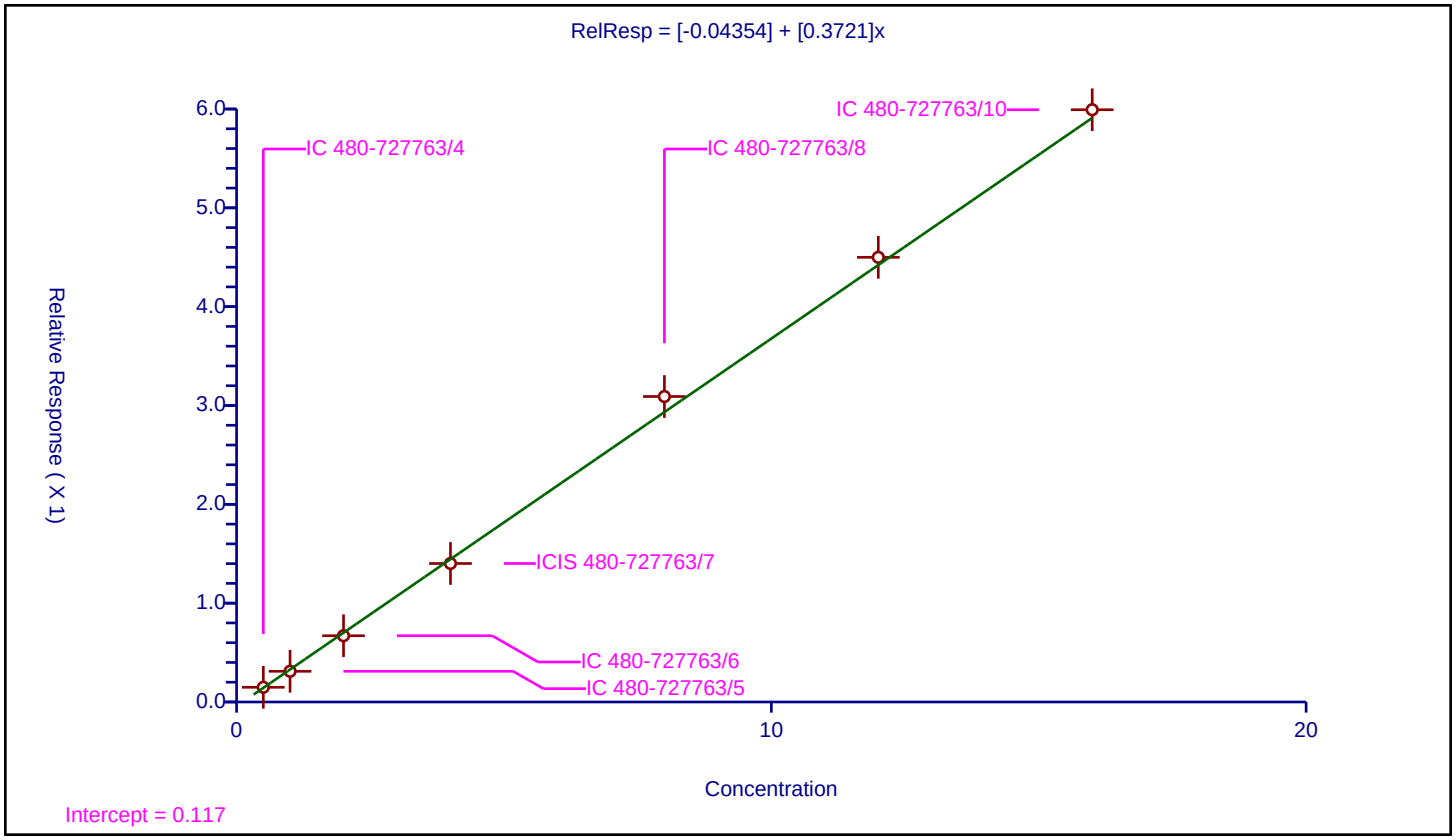
Curve Coefficients

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

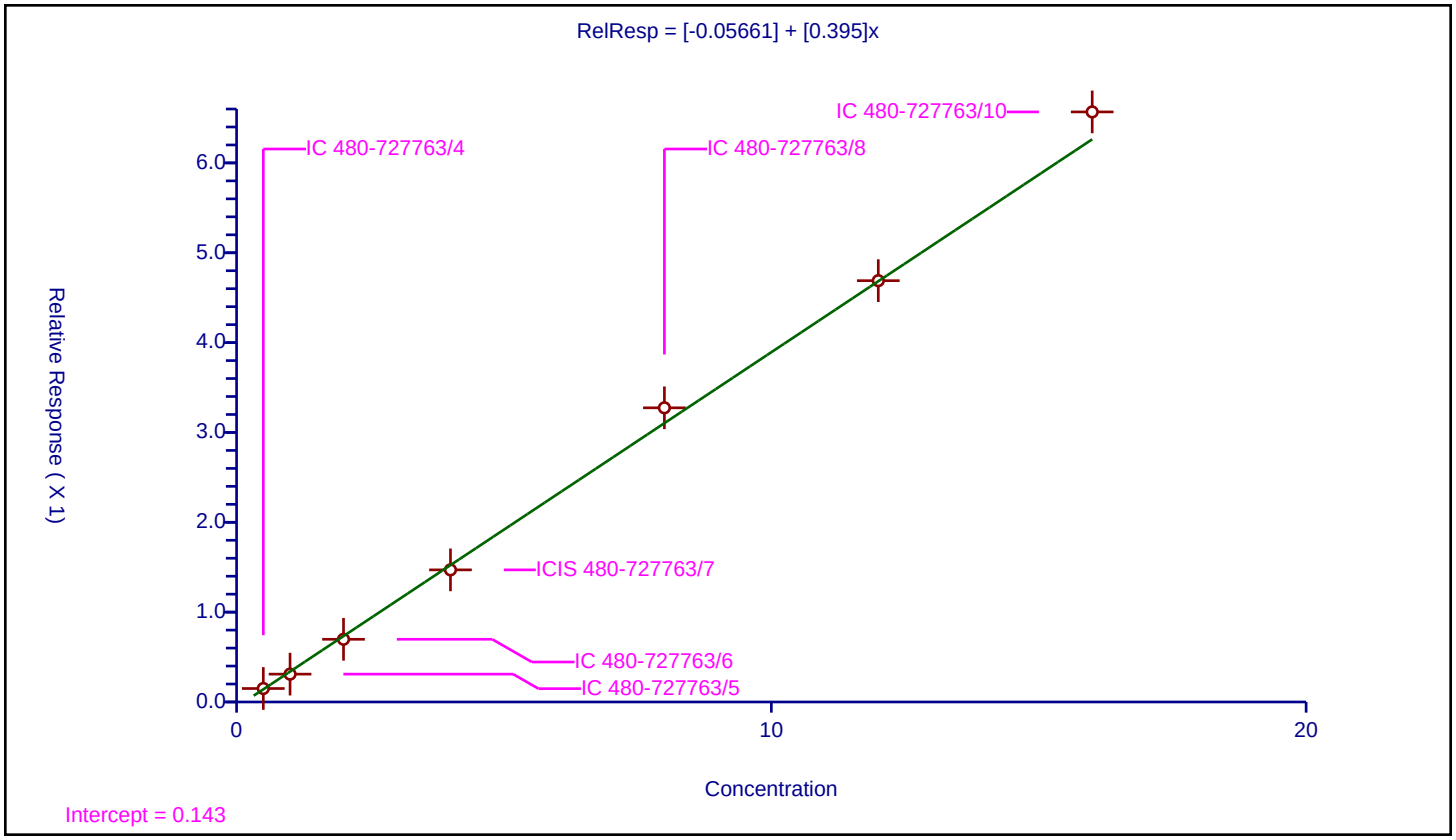
Curve Coefficients

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

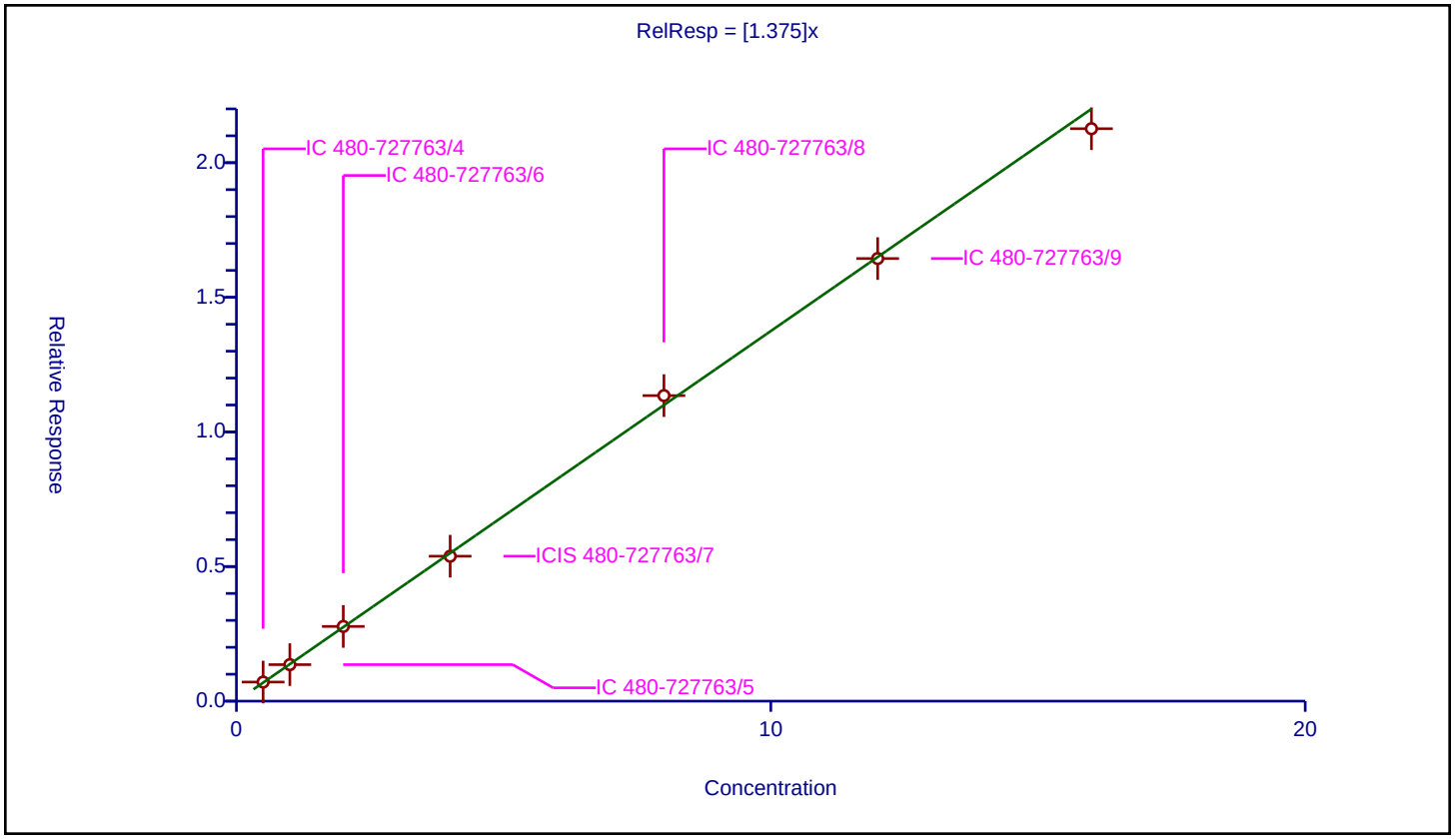
Curve Coefficients

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

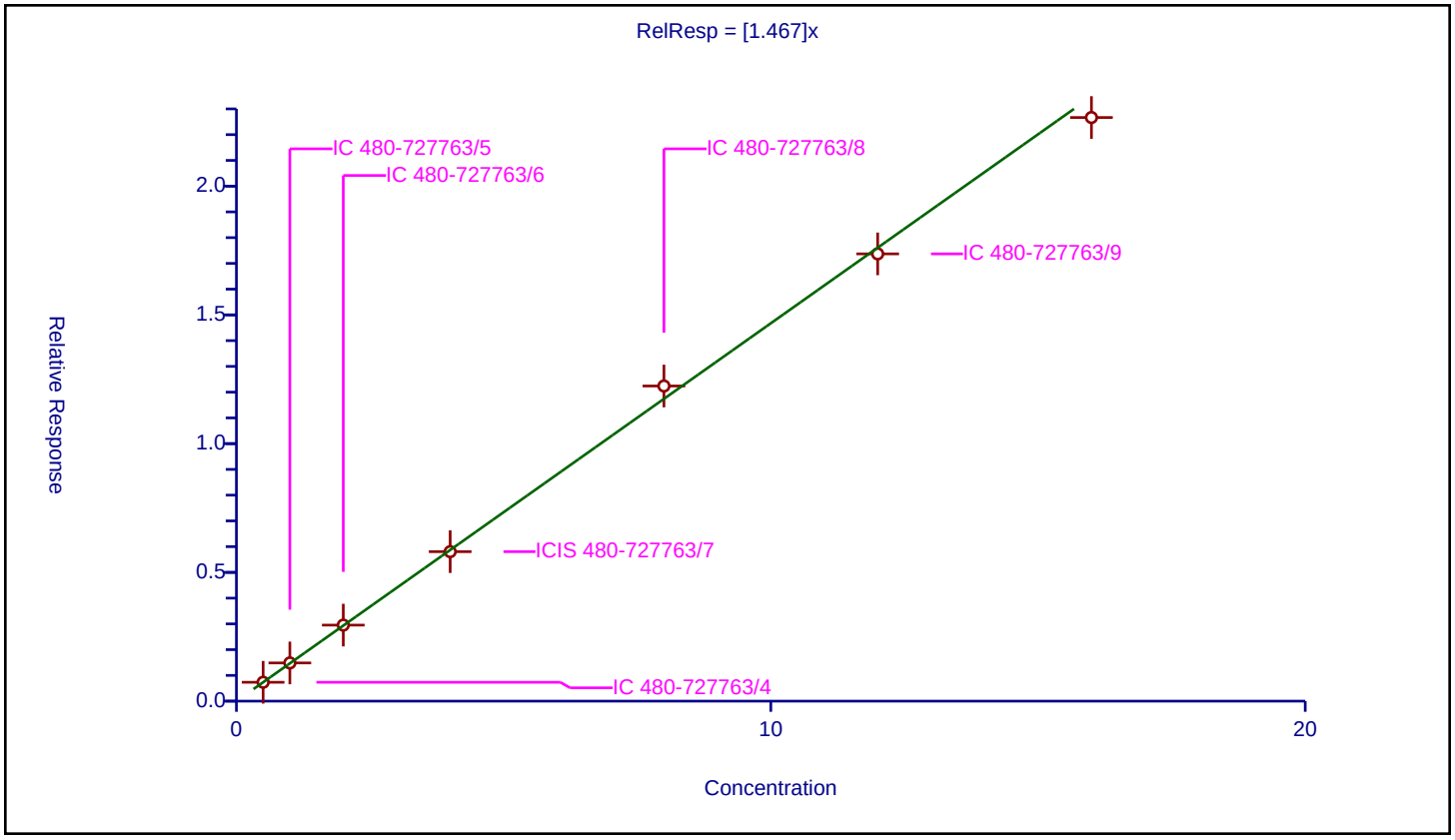
Curve Coefficients

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



Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

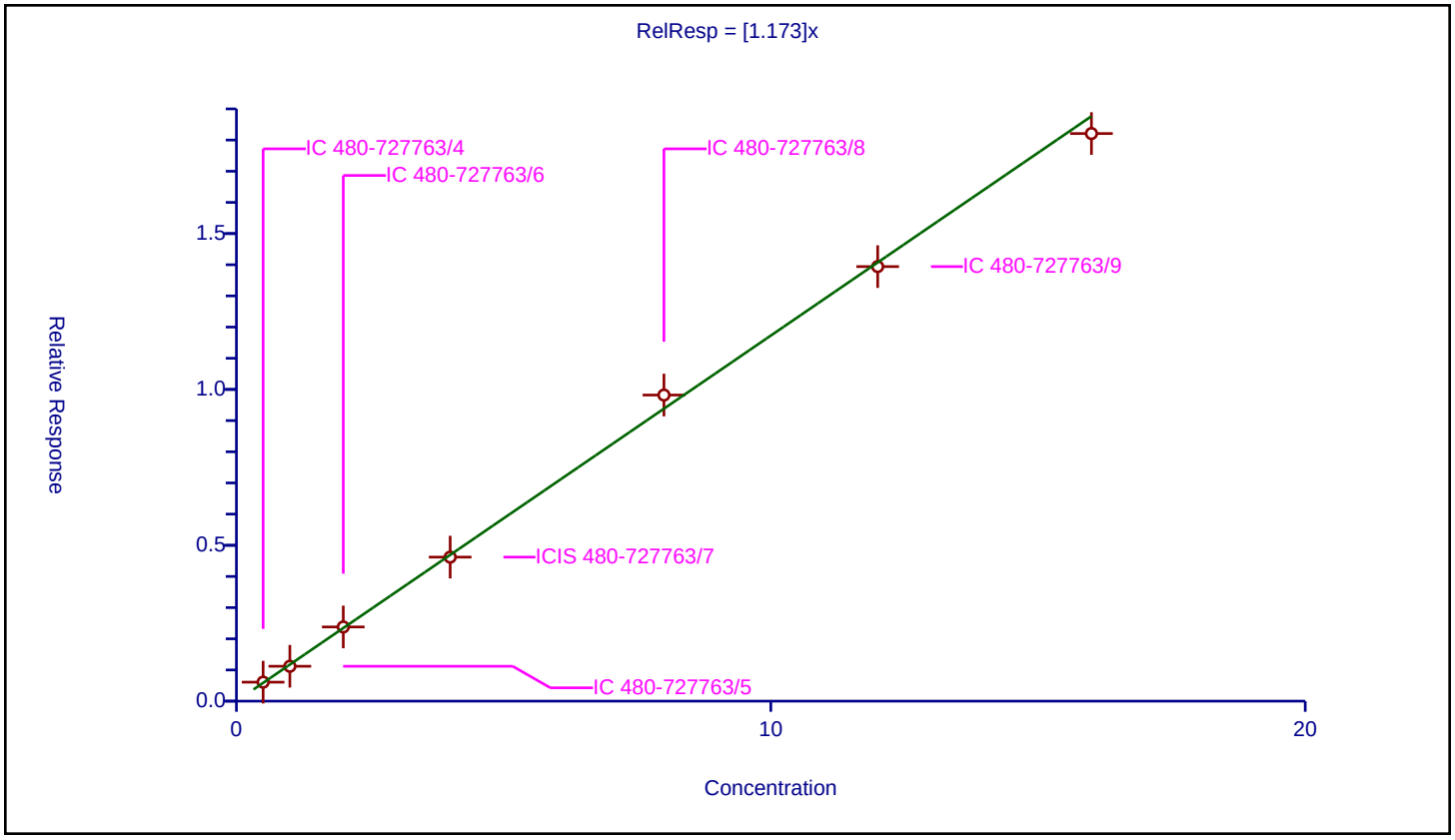
Curve Coefficients

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

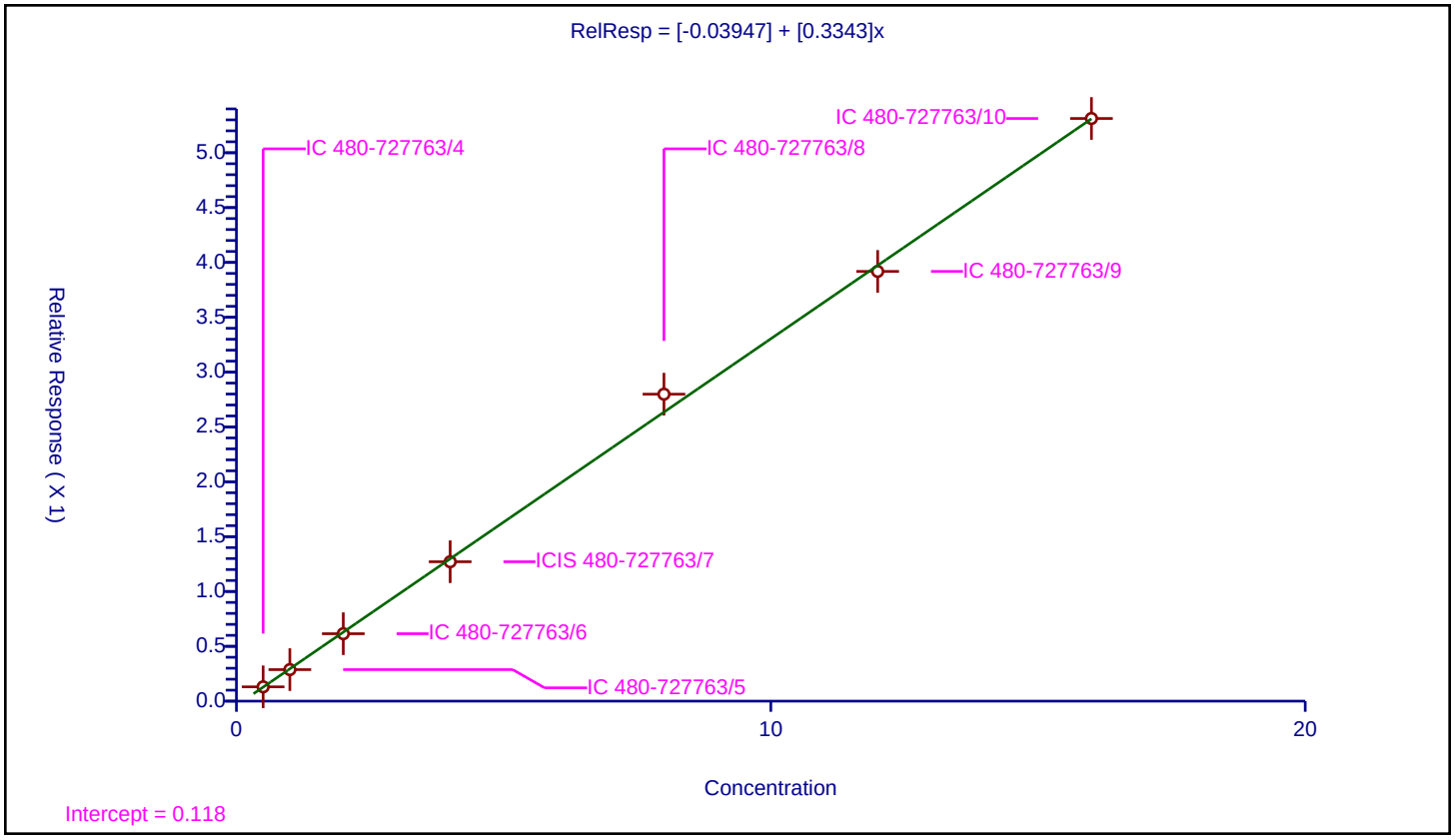
Curve Coefficients

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

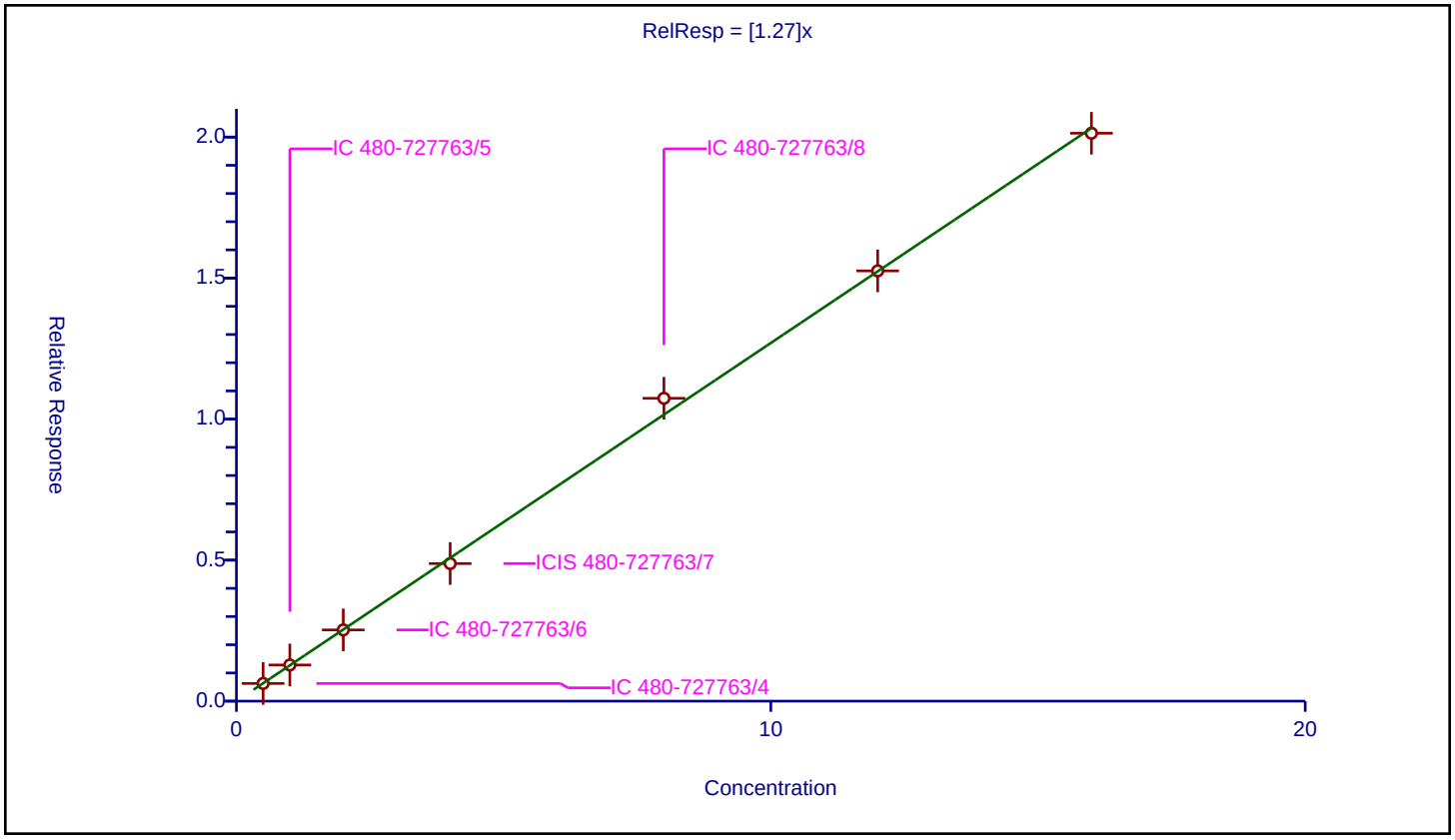
Curve Coefficients

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

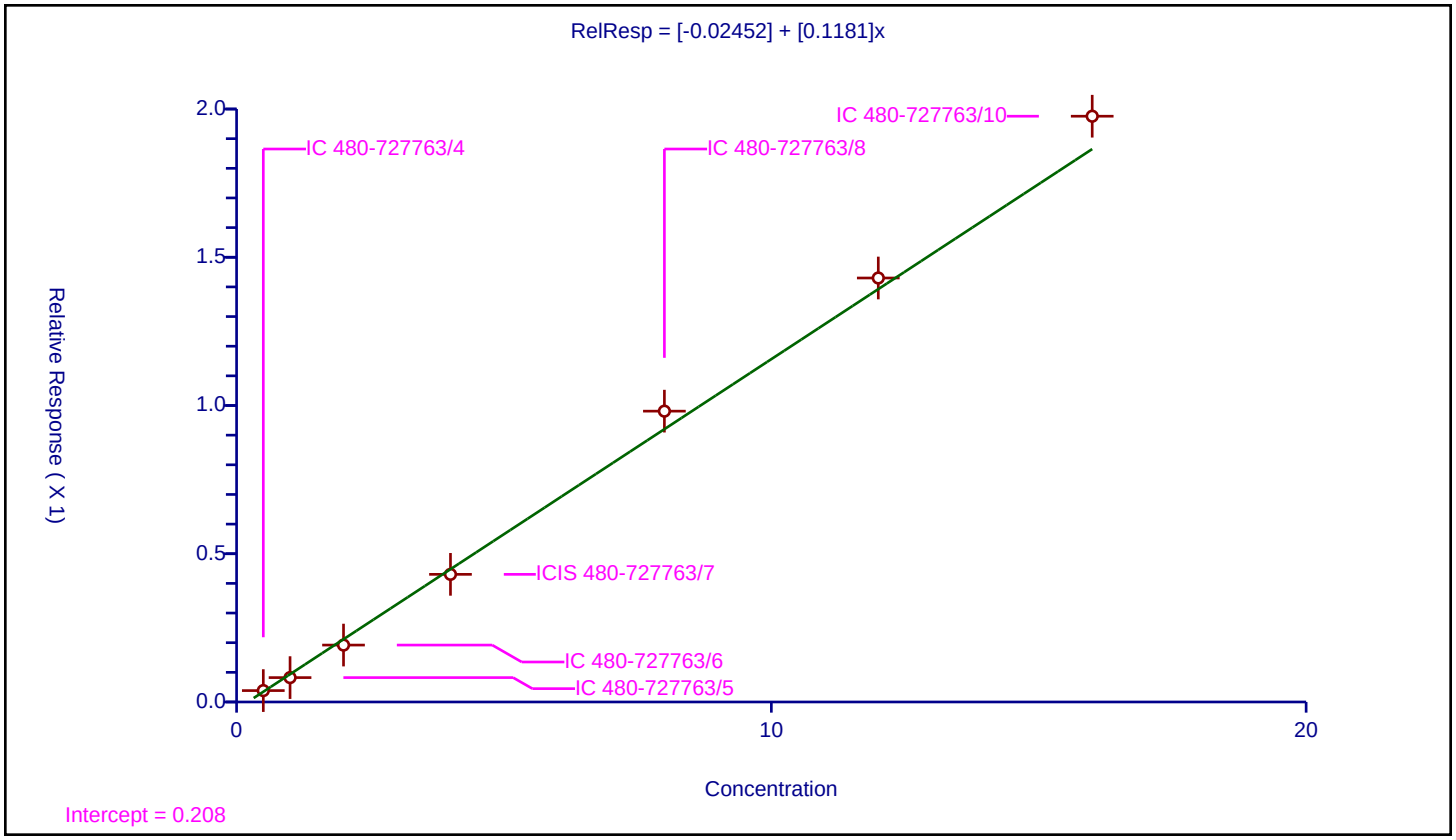
Curve Coefficients

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

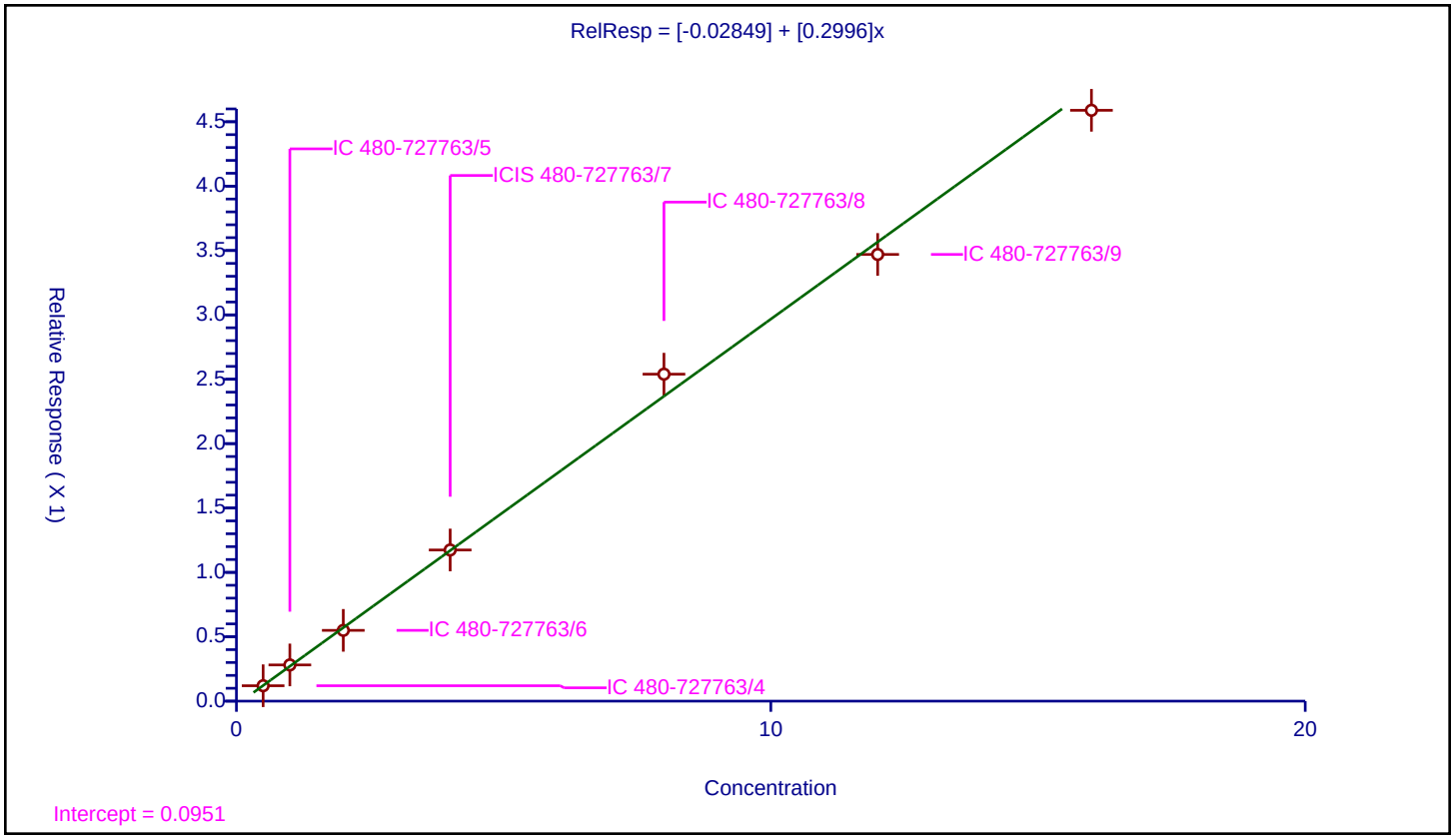
Curve Coefficients

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

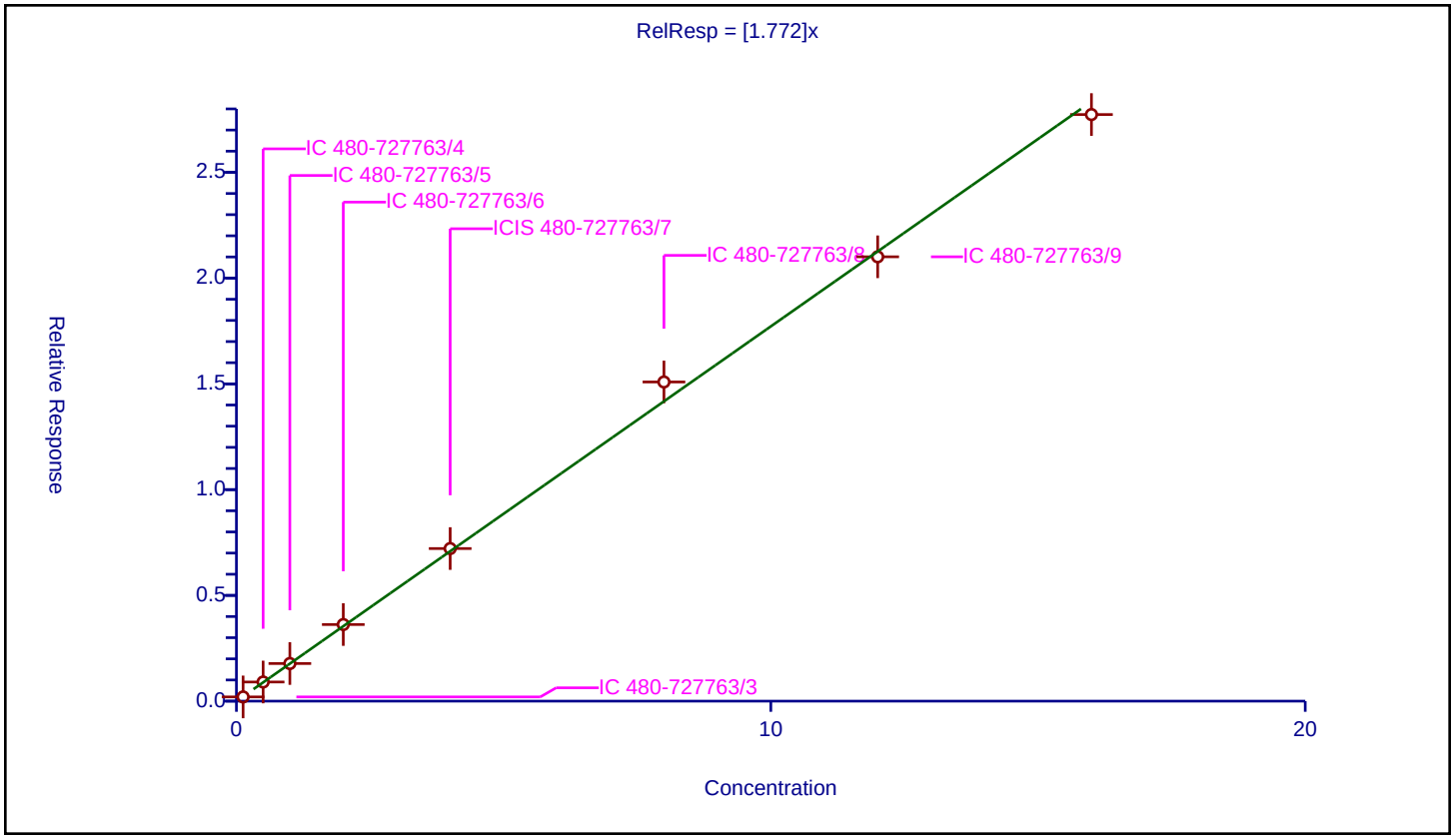
Curve Coefficients

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

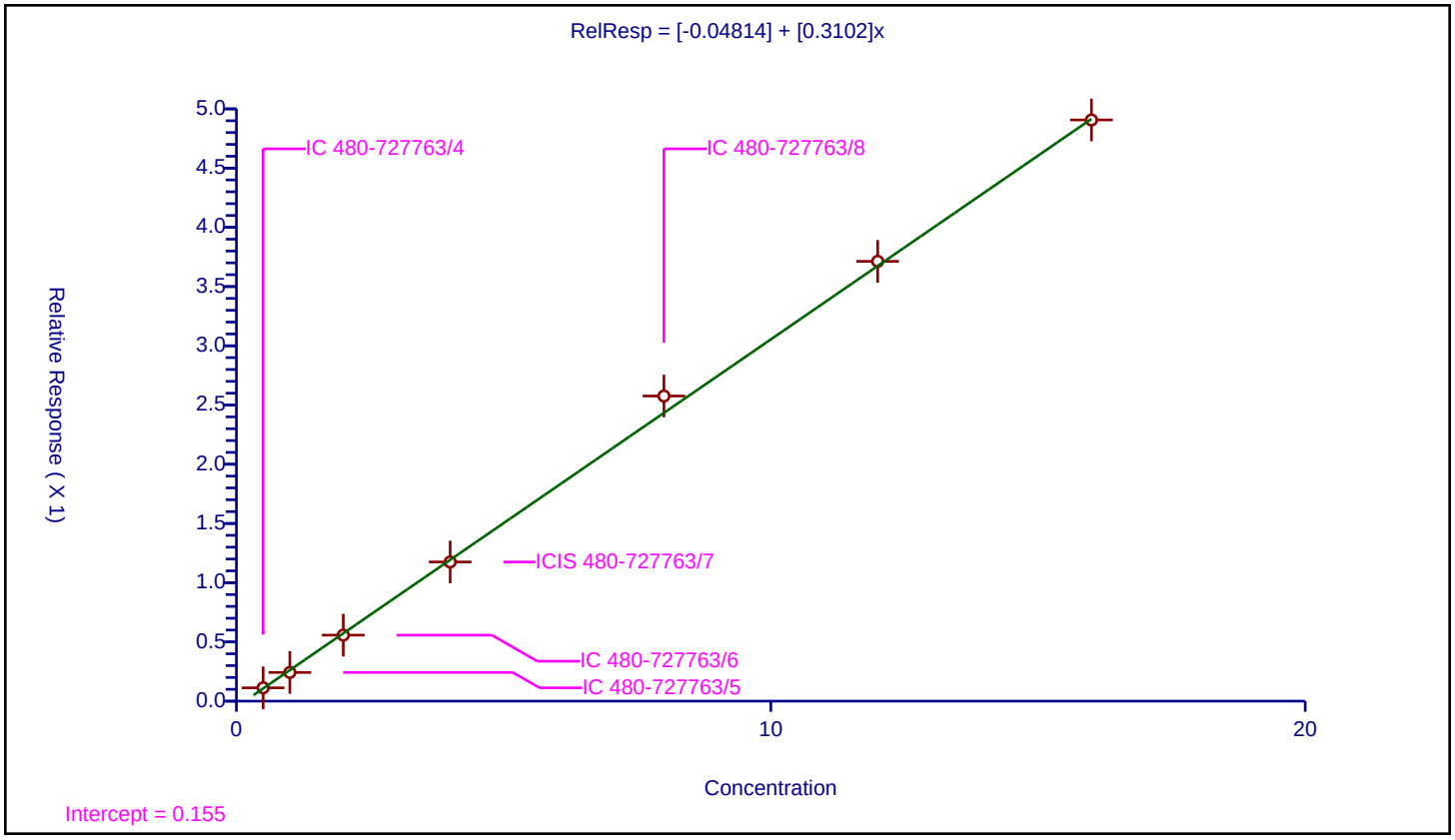
Curve Coefficients

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

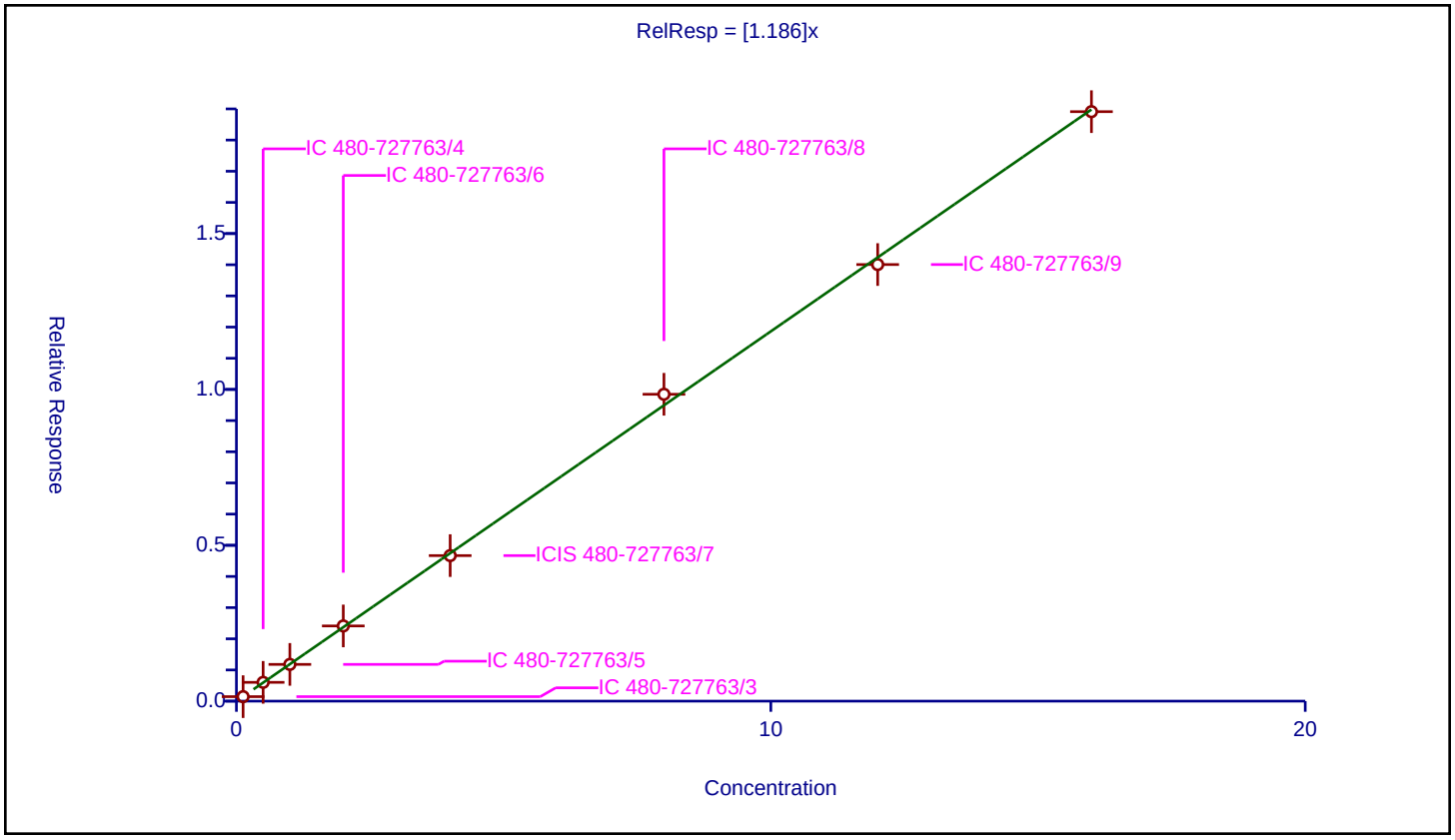
Curve Coefficients

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



Calibration / 2,4-Dinitrophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

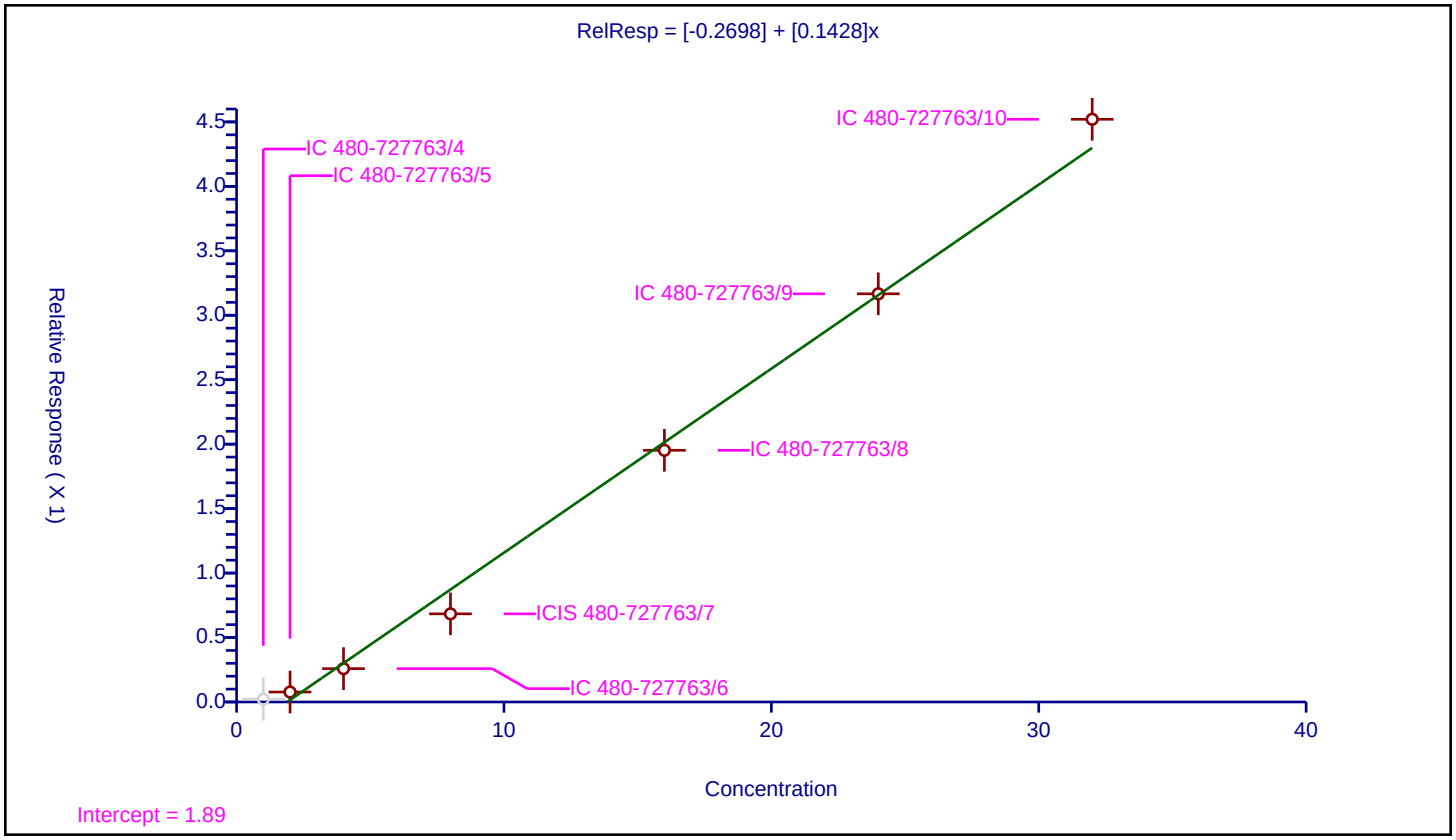
Curve Coefficients

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

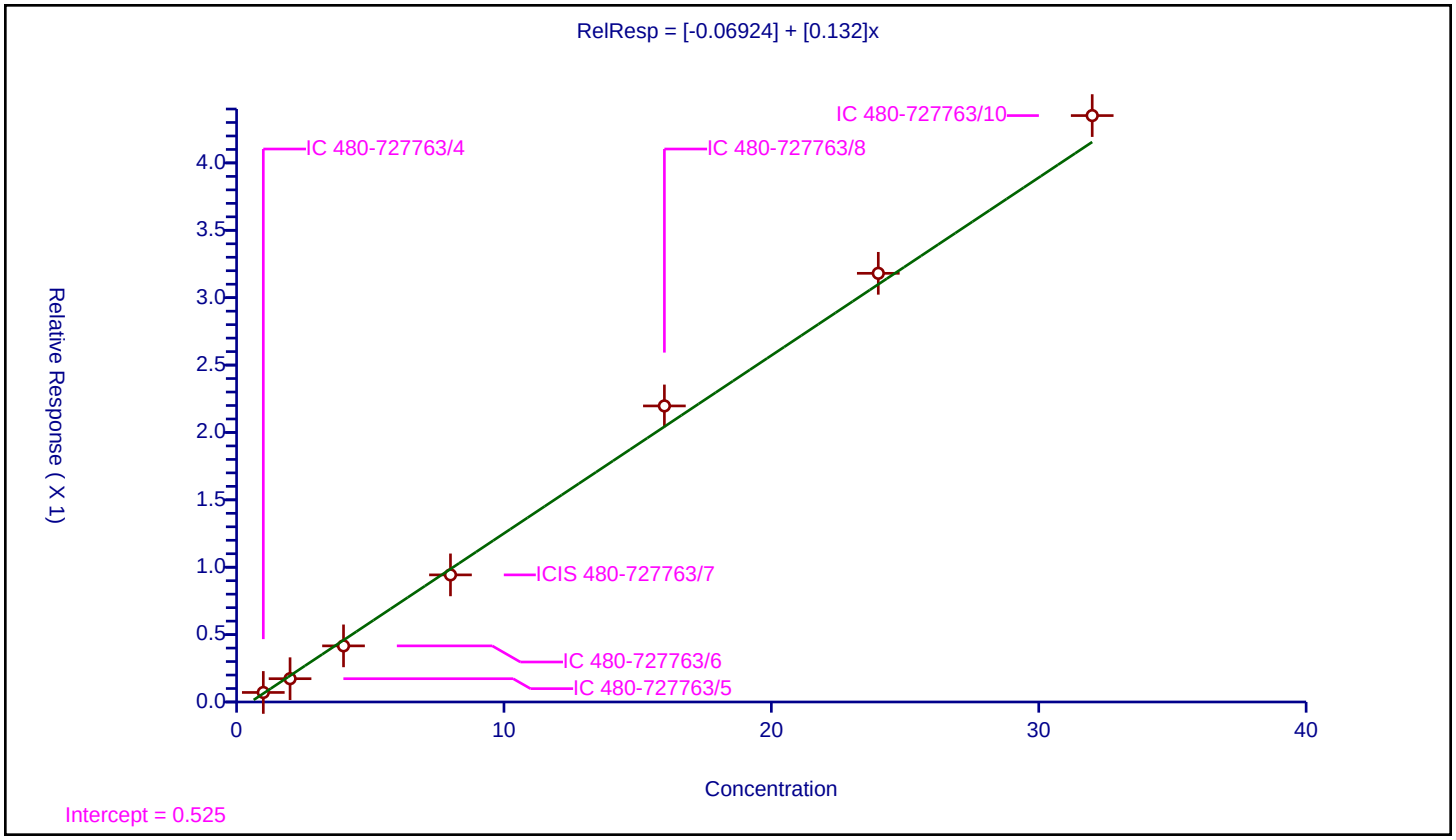
Curve Coefficients

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

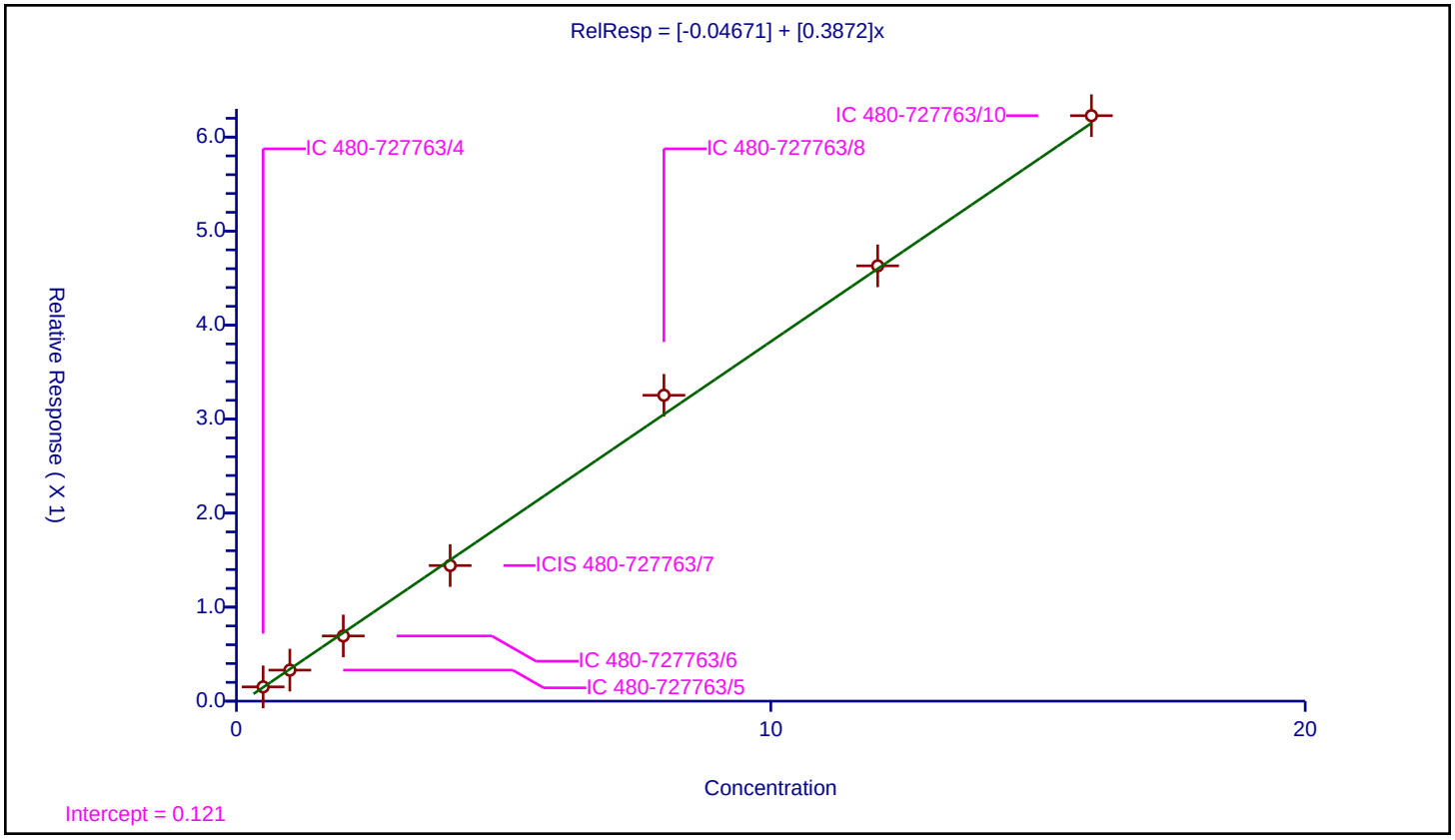
Curve Coefficients

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

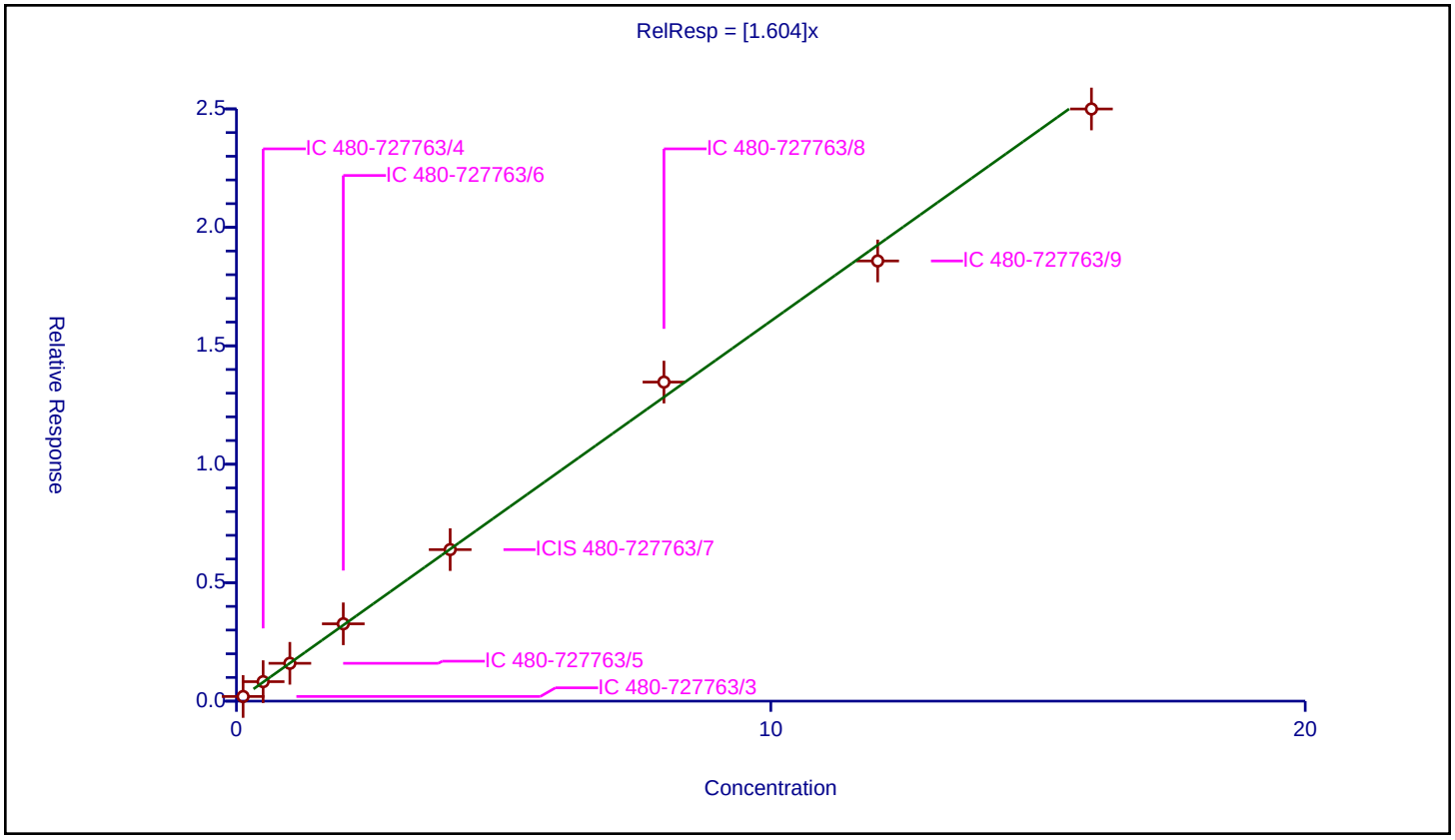
Curve Coefficients

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

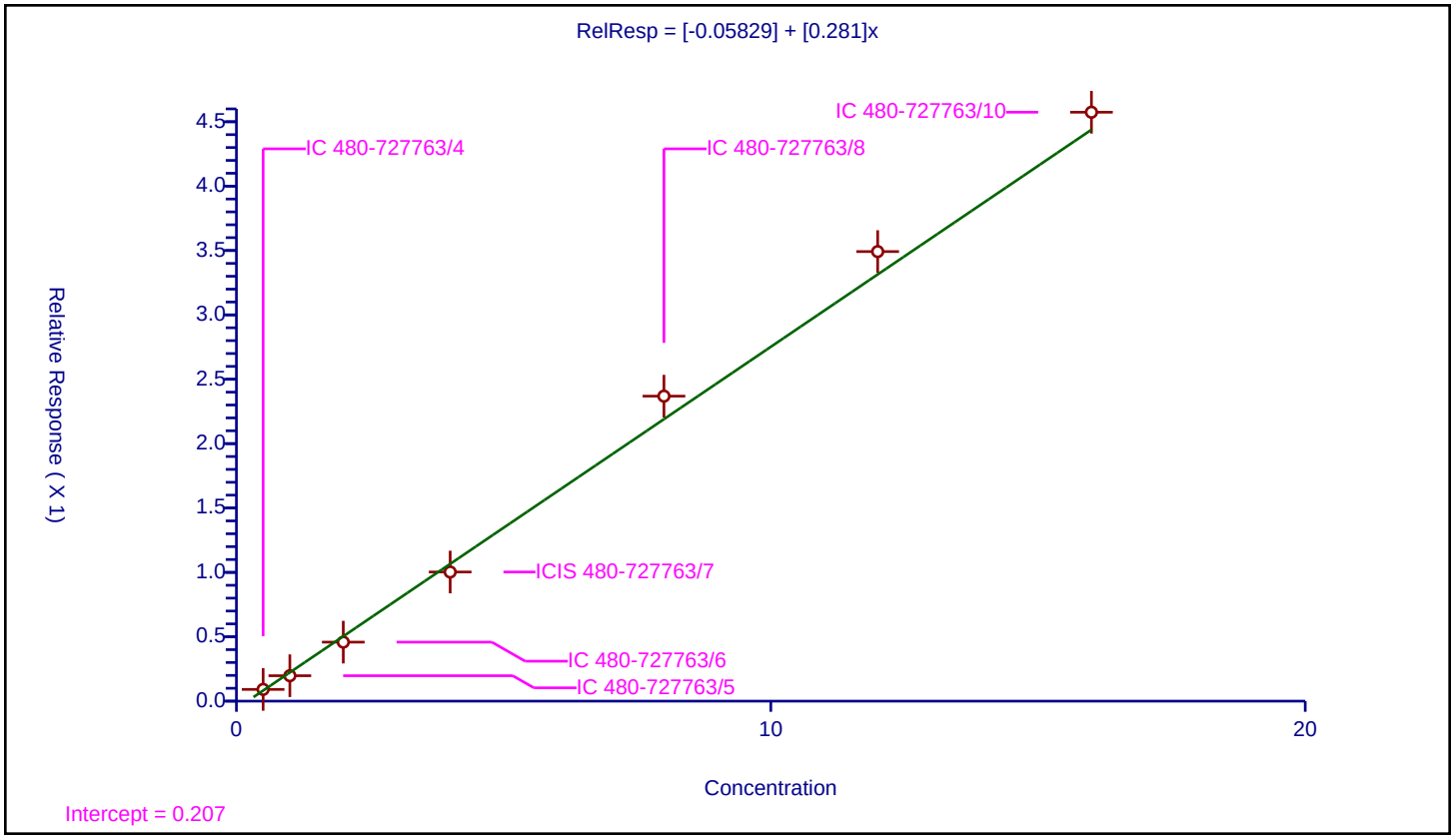
Curve Coefficients

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

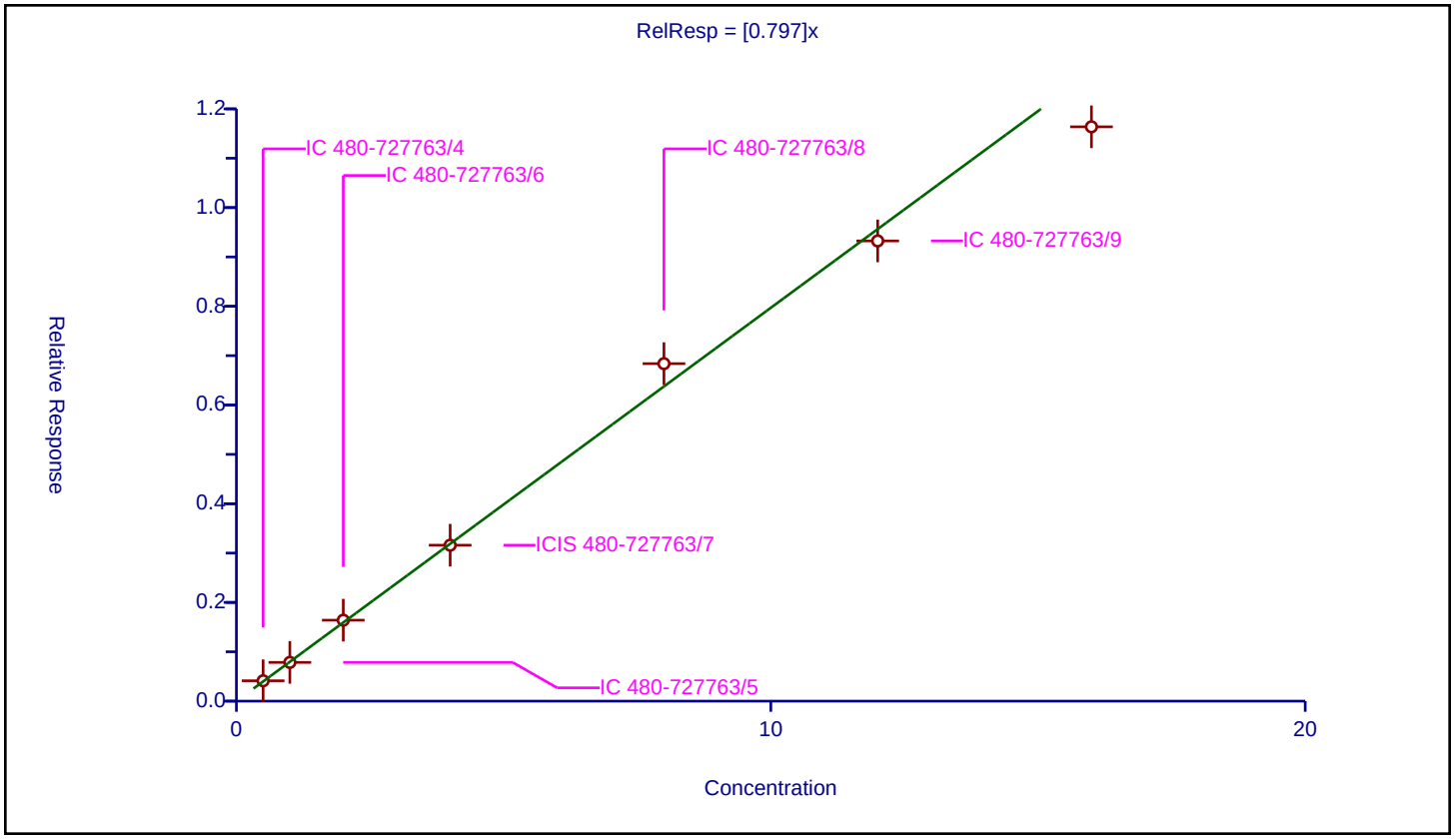
Curve Coefficients

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

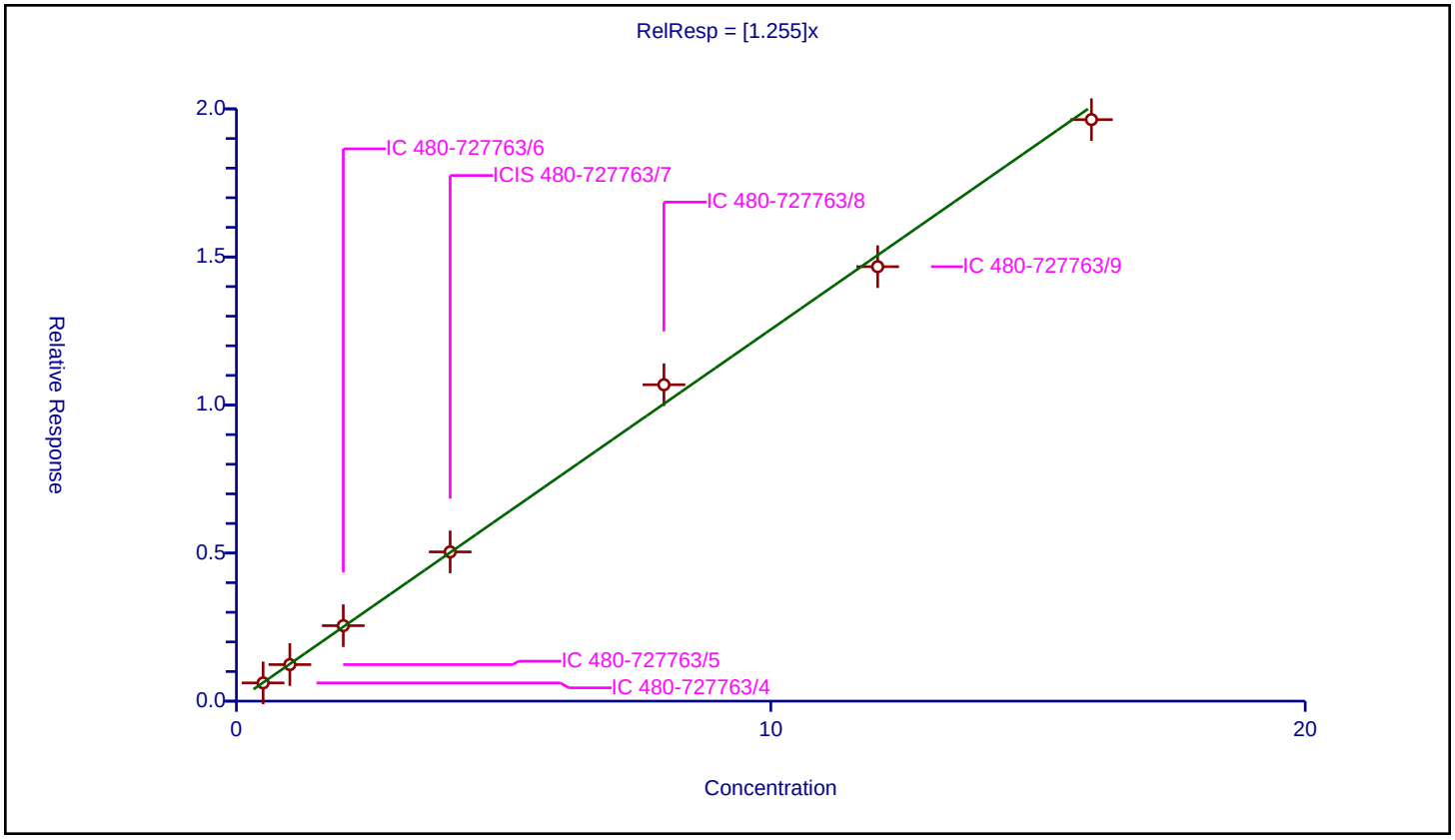
Curve Coefficients

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

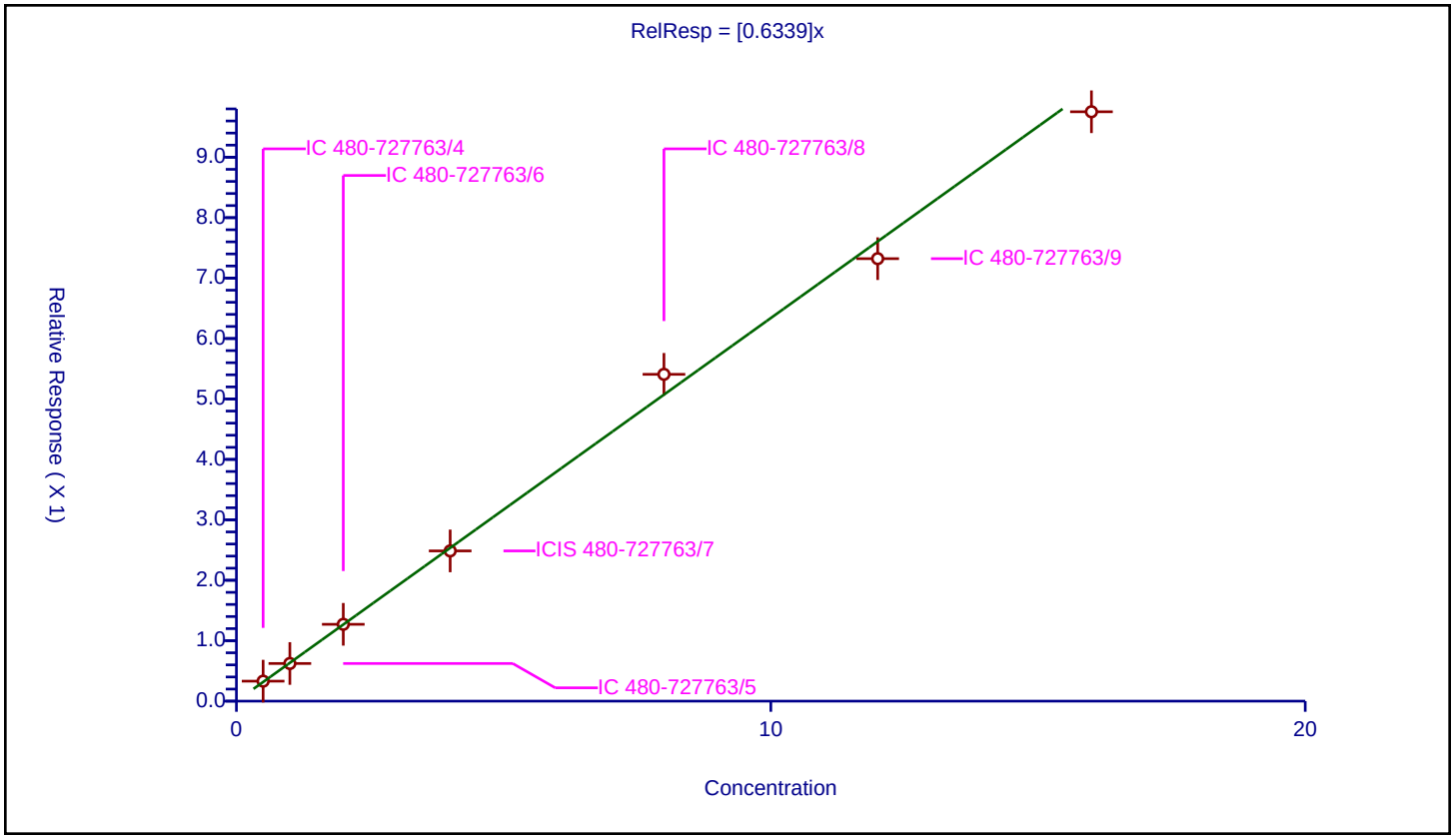
Curve Coefficients

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

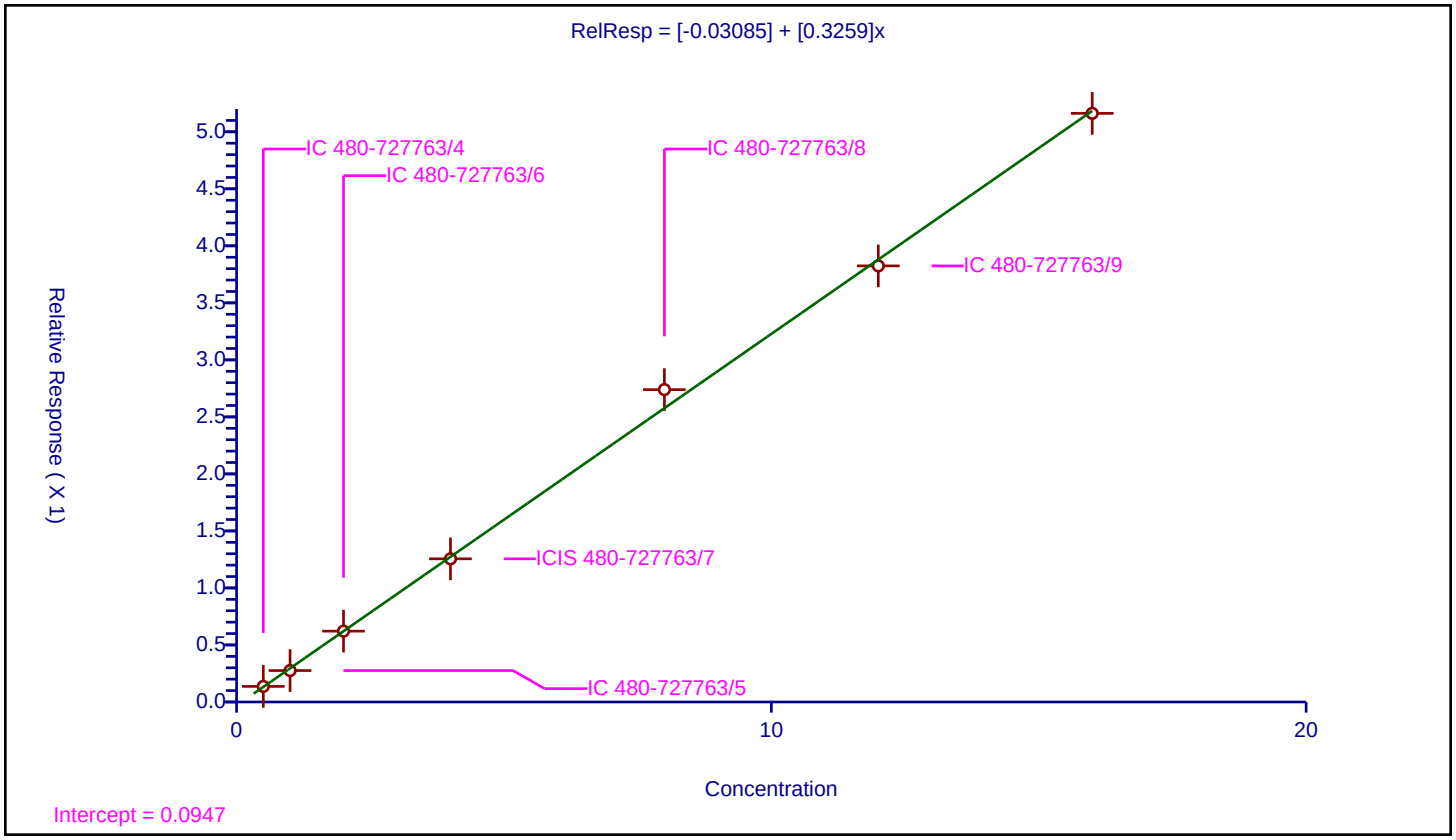
Curve Coefficients

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

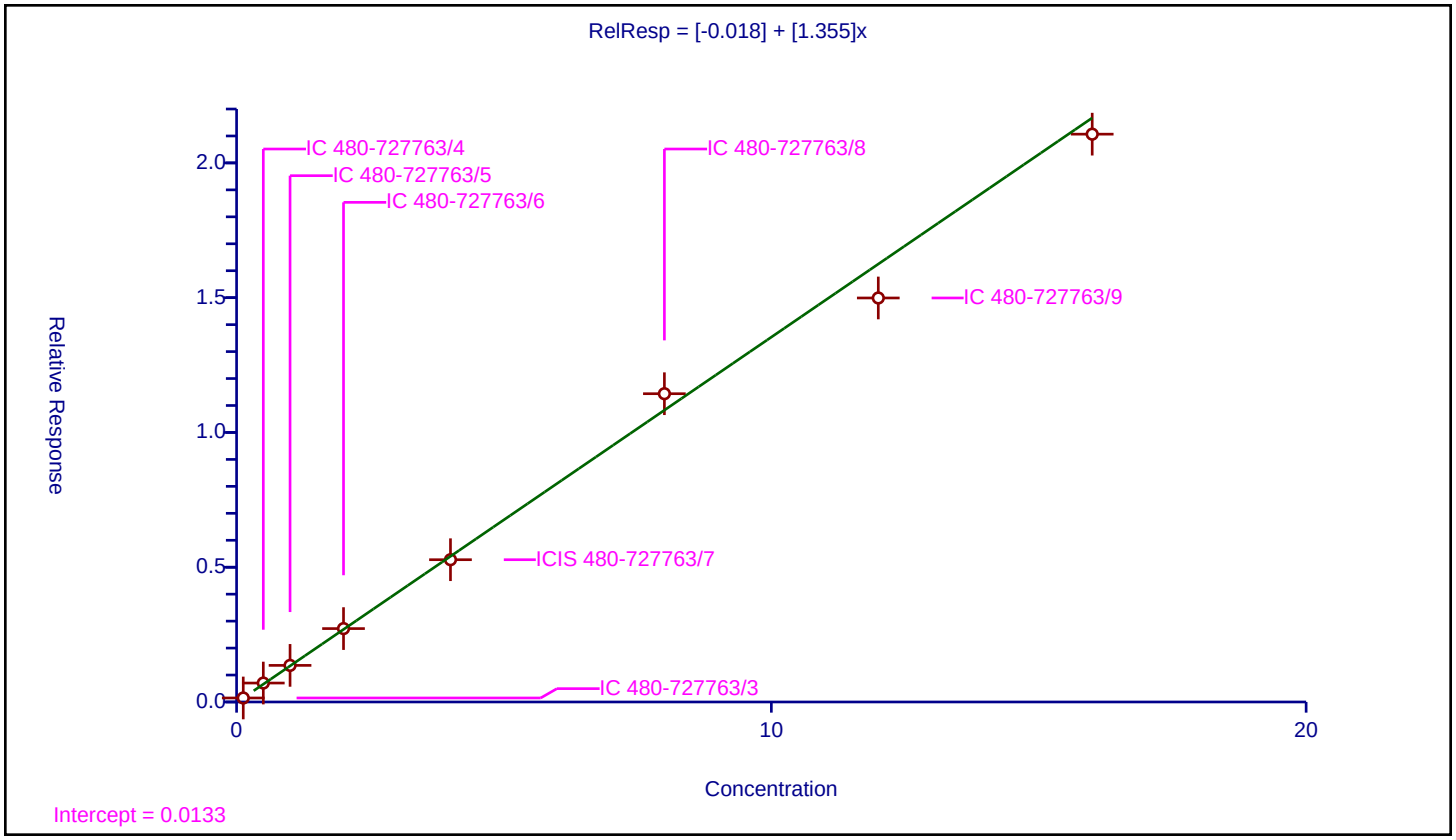
Curve Coefficients

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

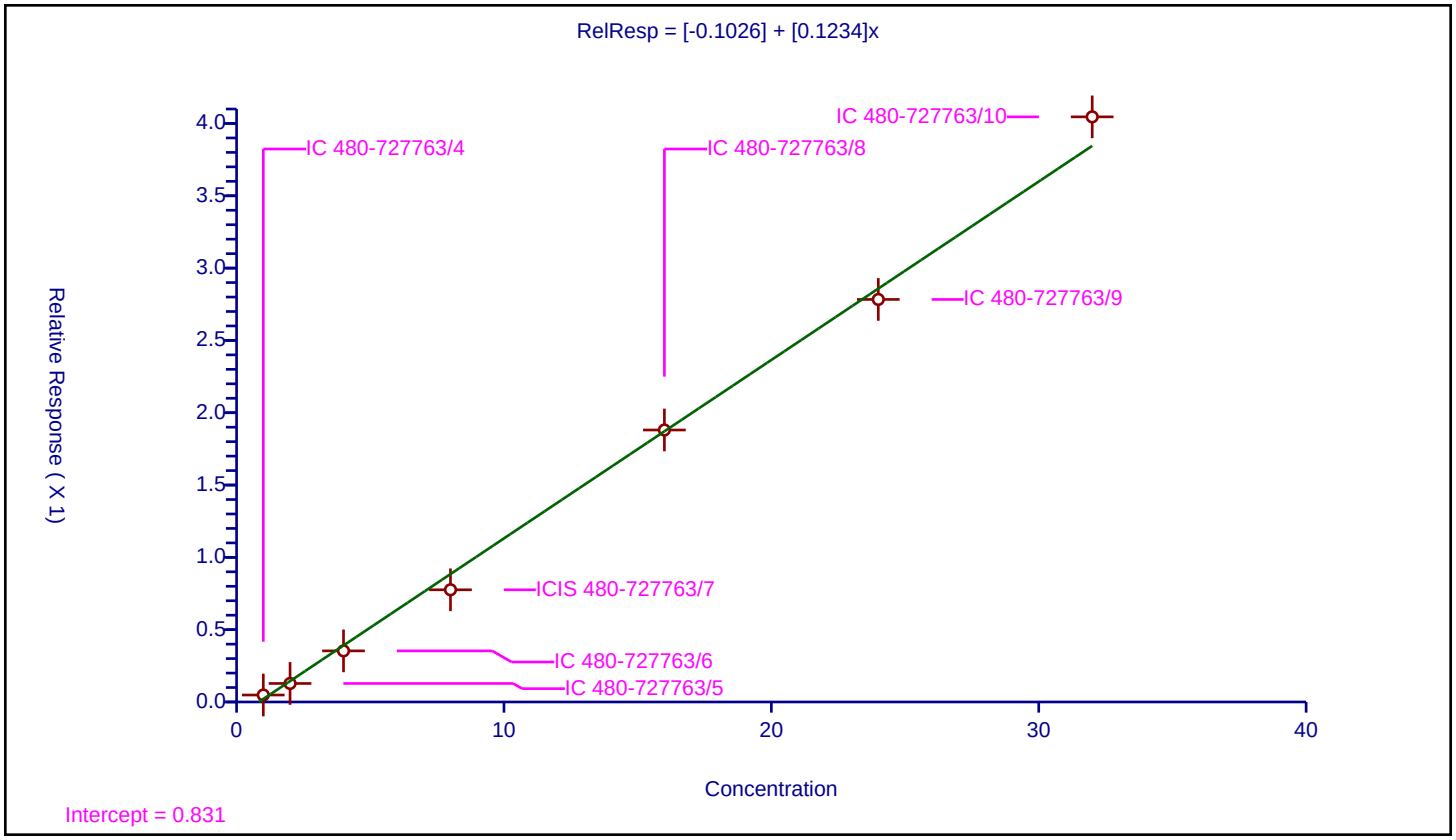
Curve Coefficients

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

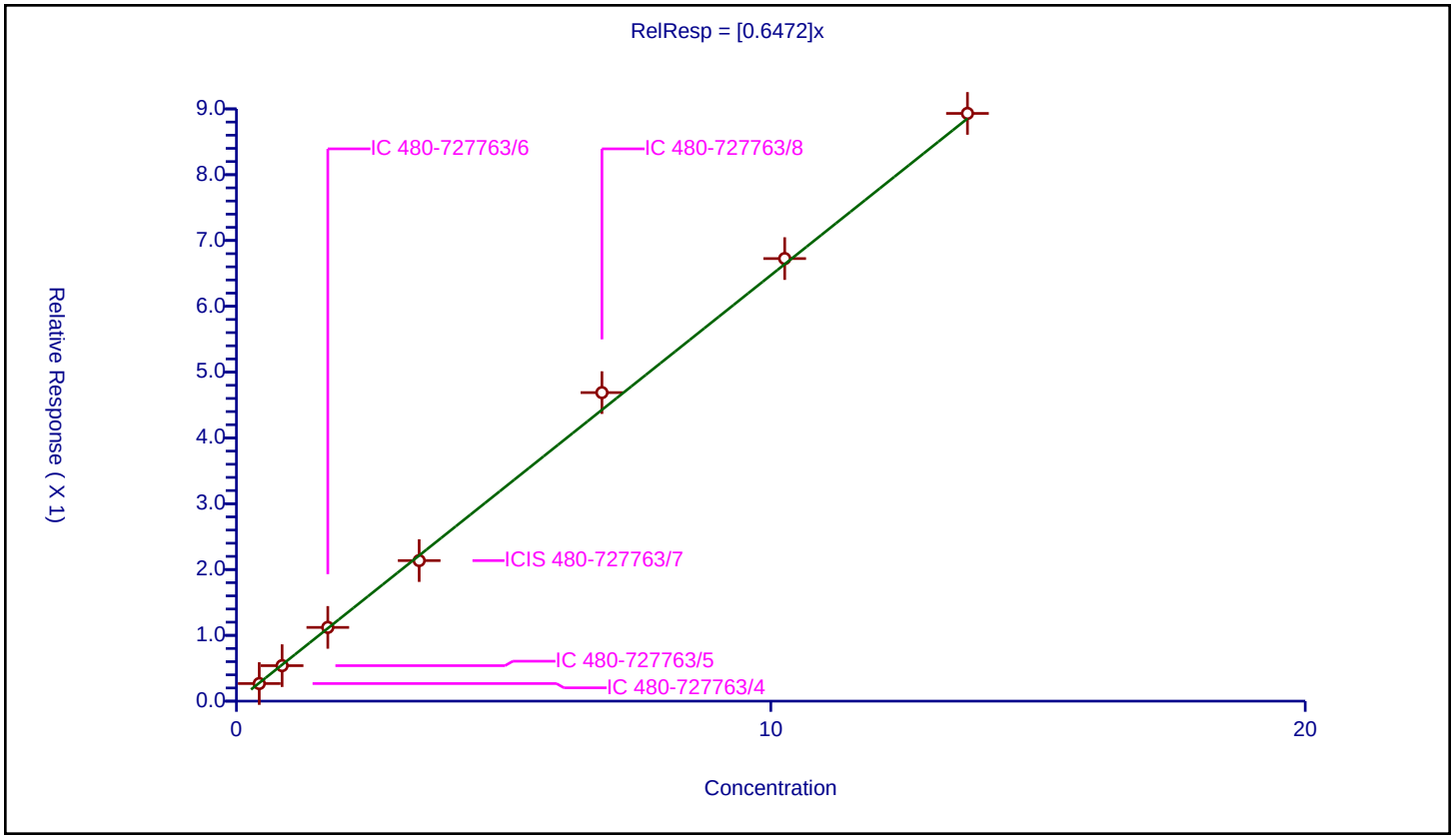
Curve Coefficients

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

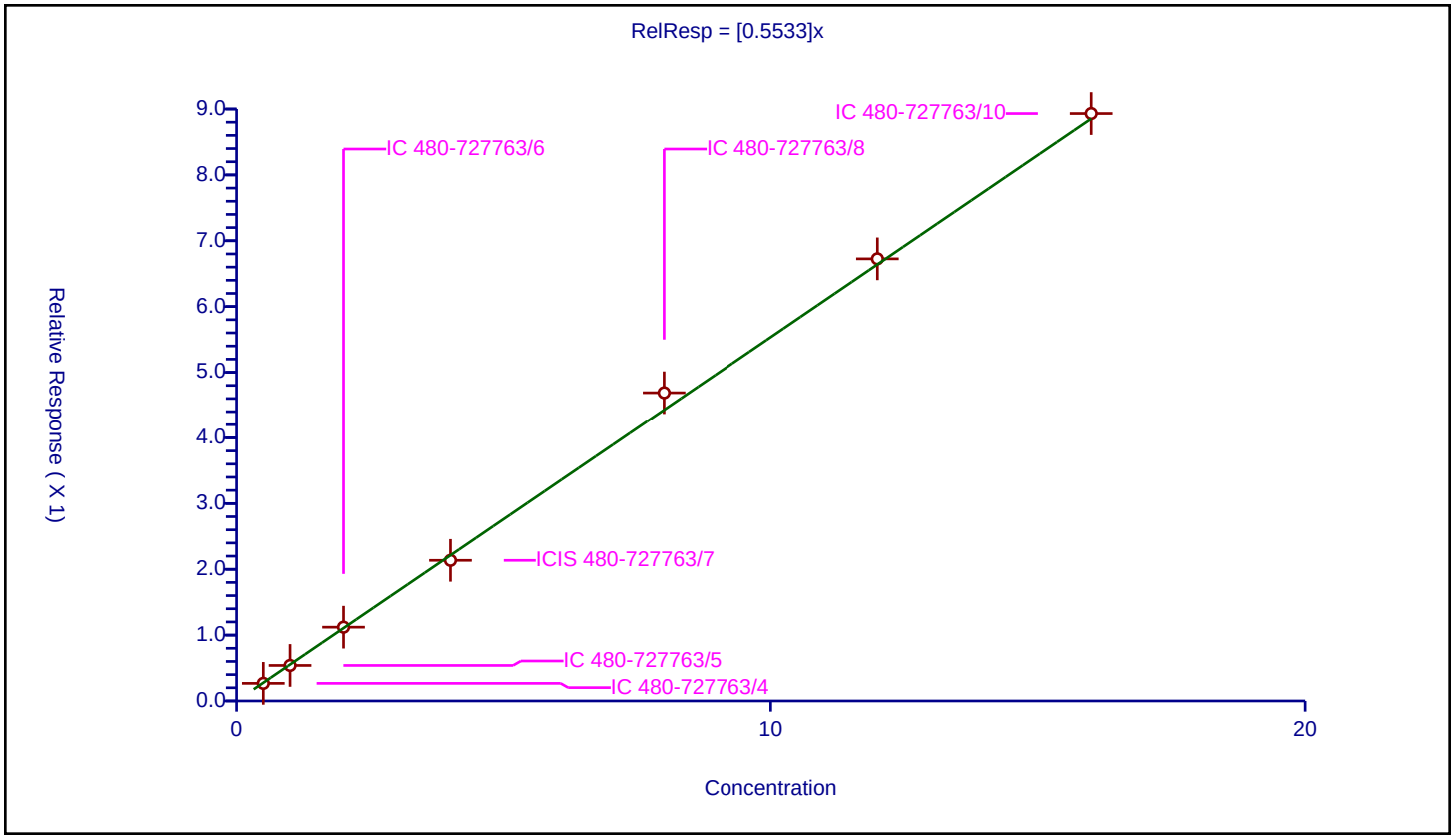
Curve Coefficients

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

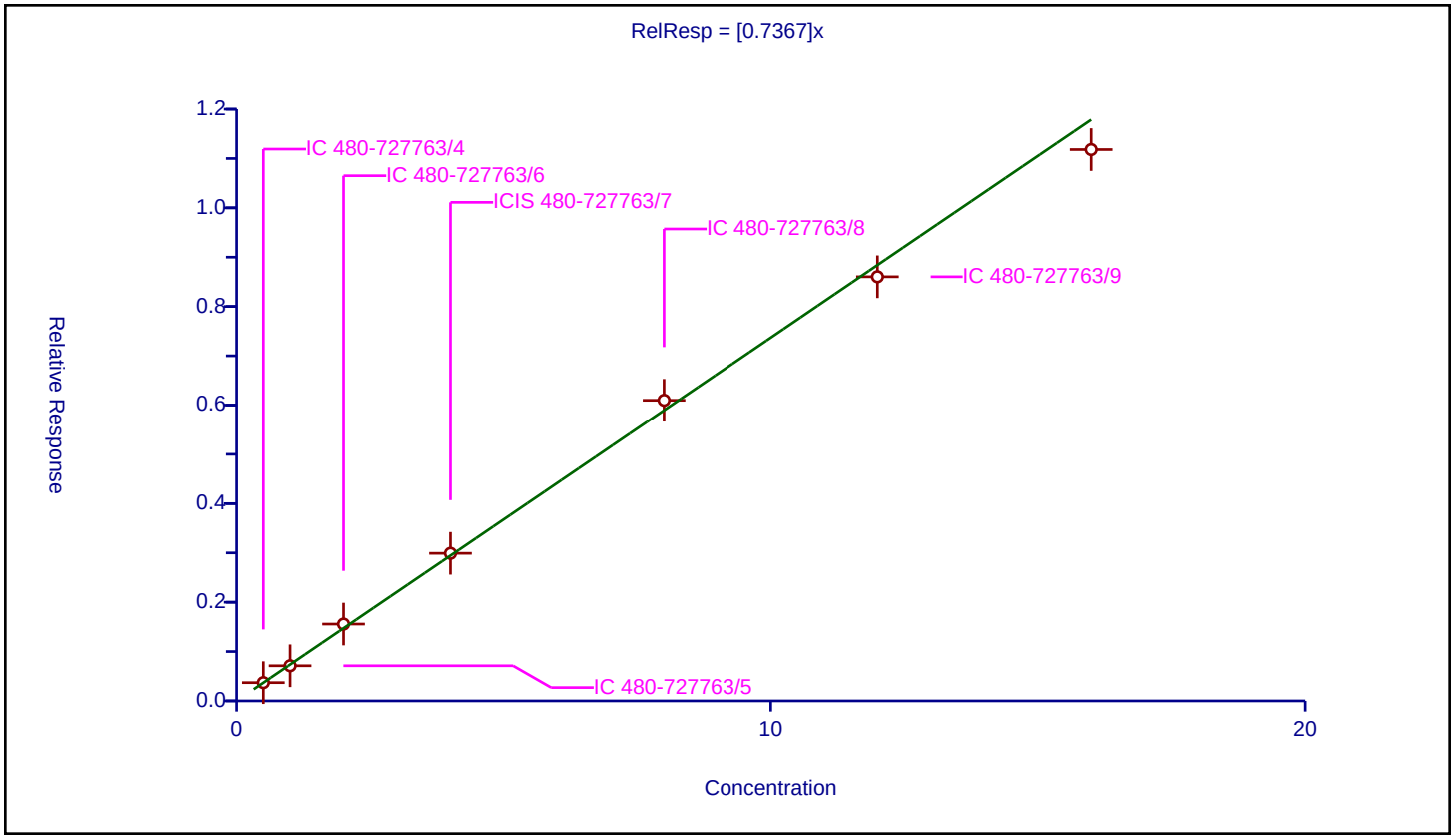
Curve Coefficients

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

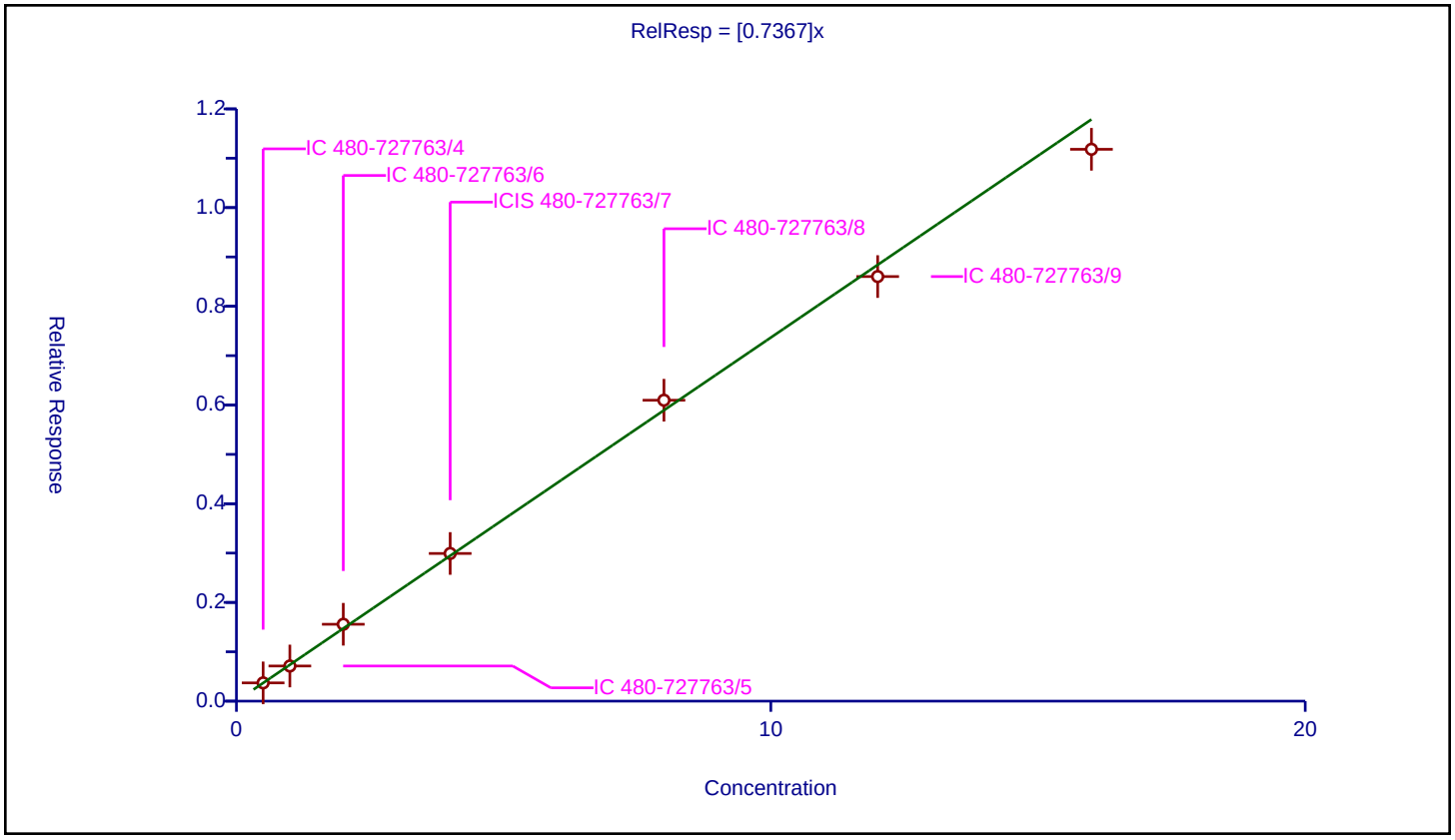
Curve Coefficients

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

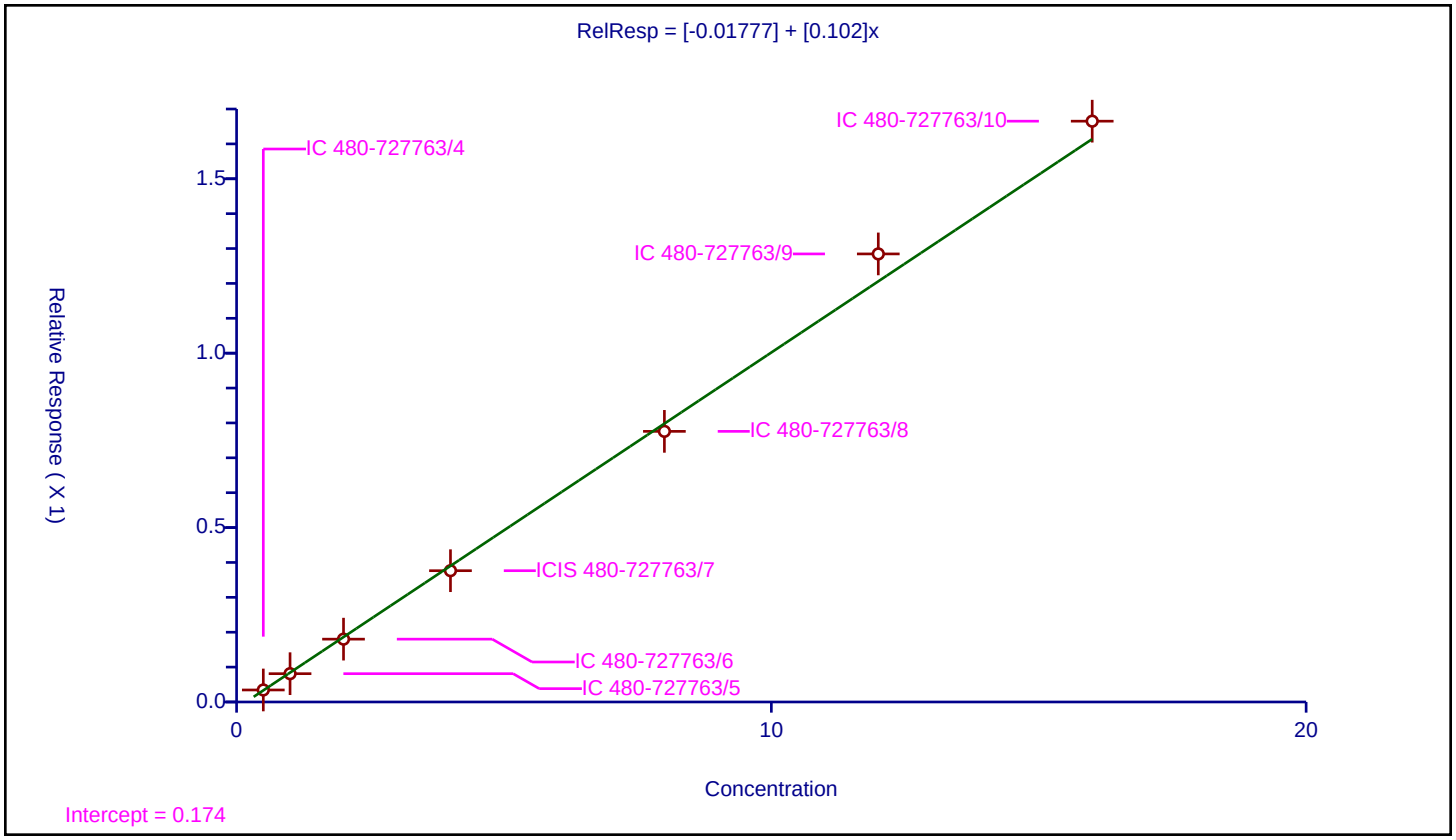
Curve Coefficients

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

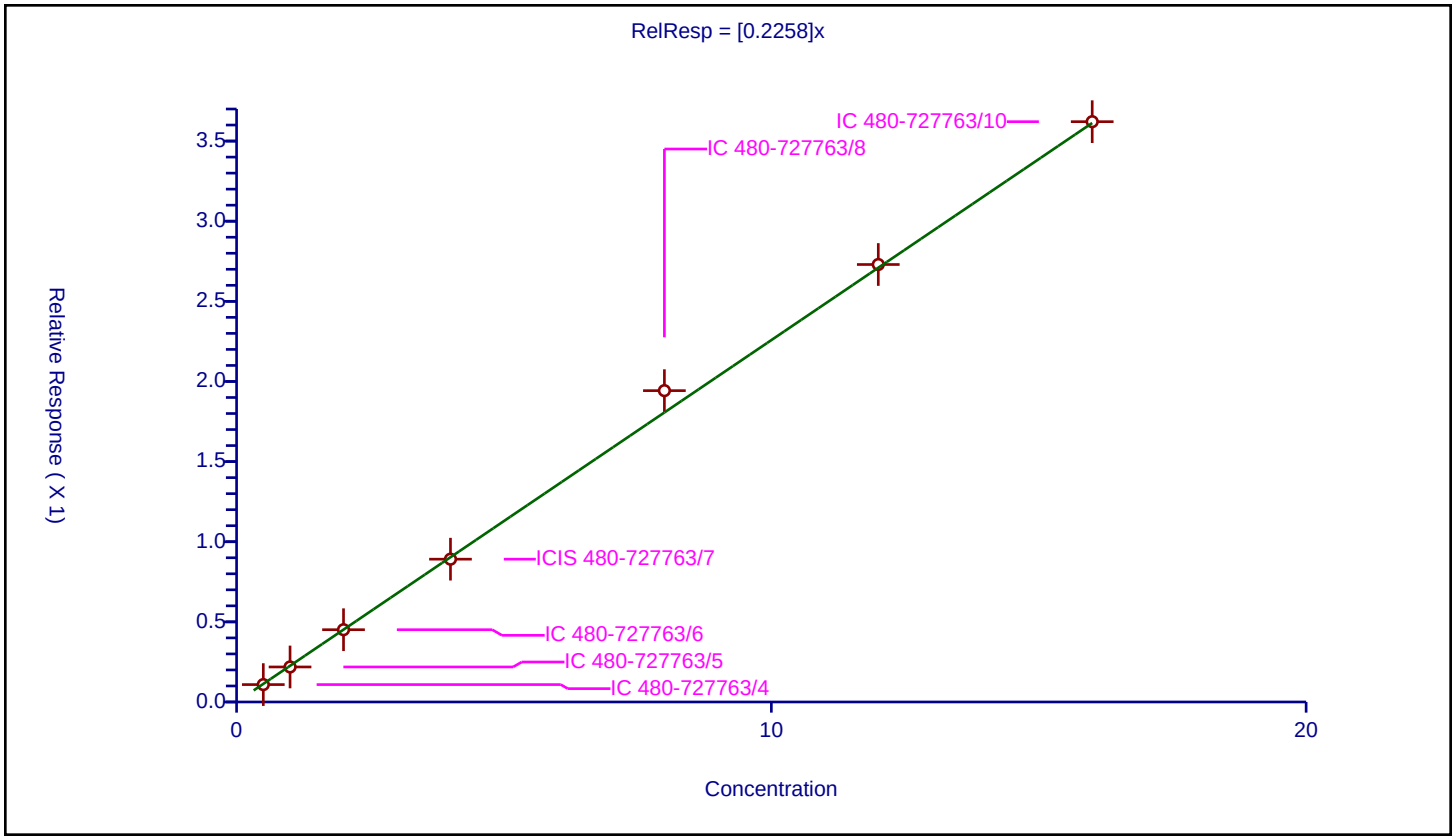
Curve Coefficients

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

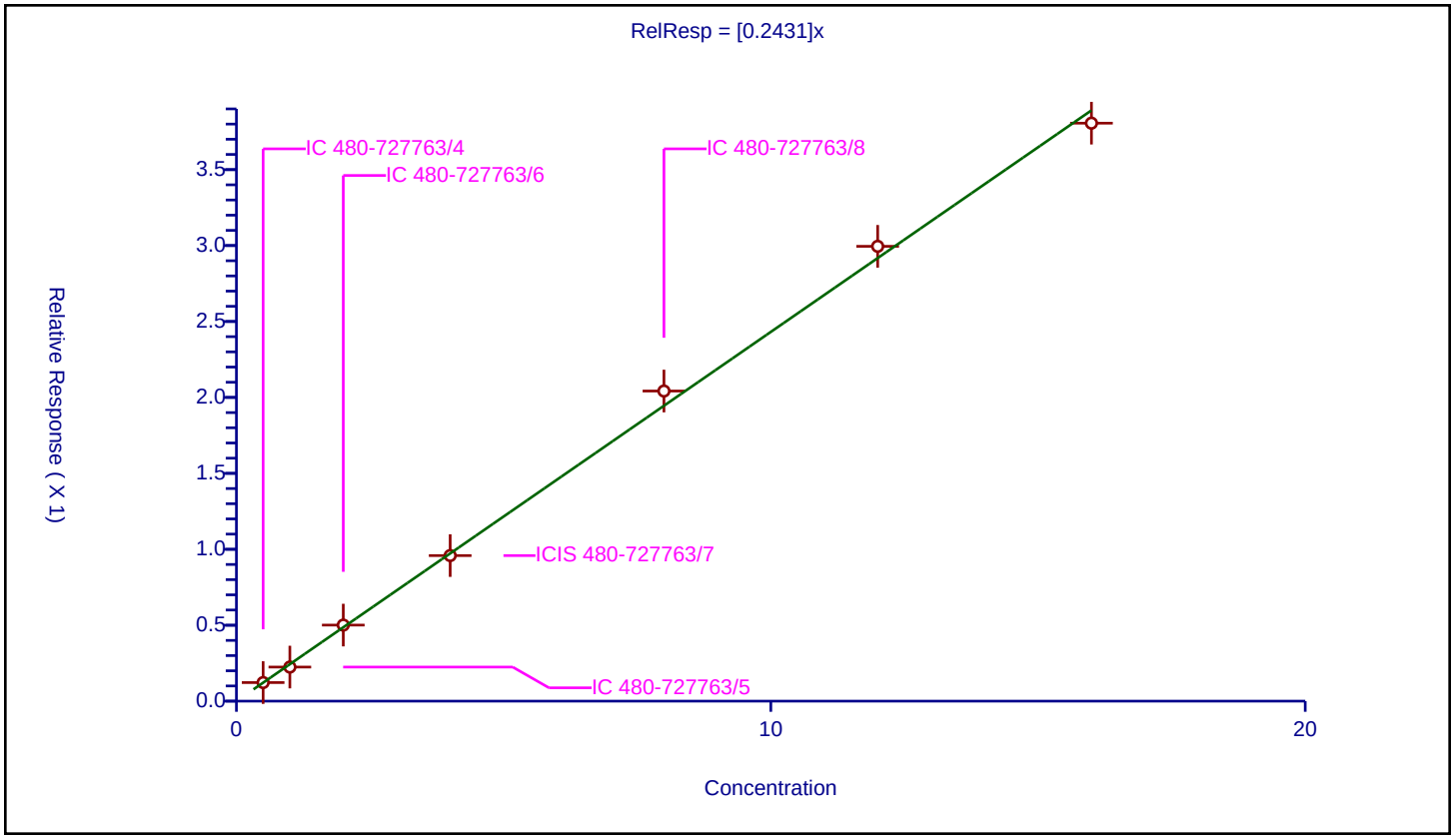
Curve Coefficients

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

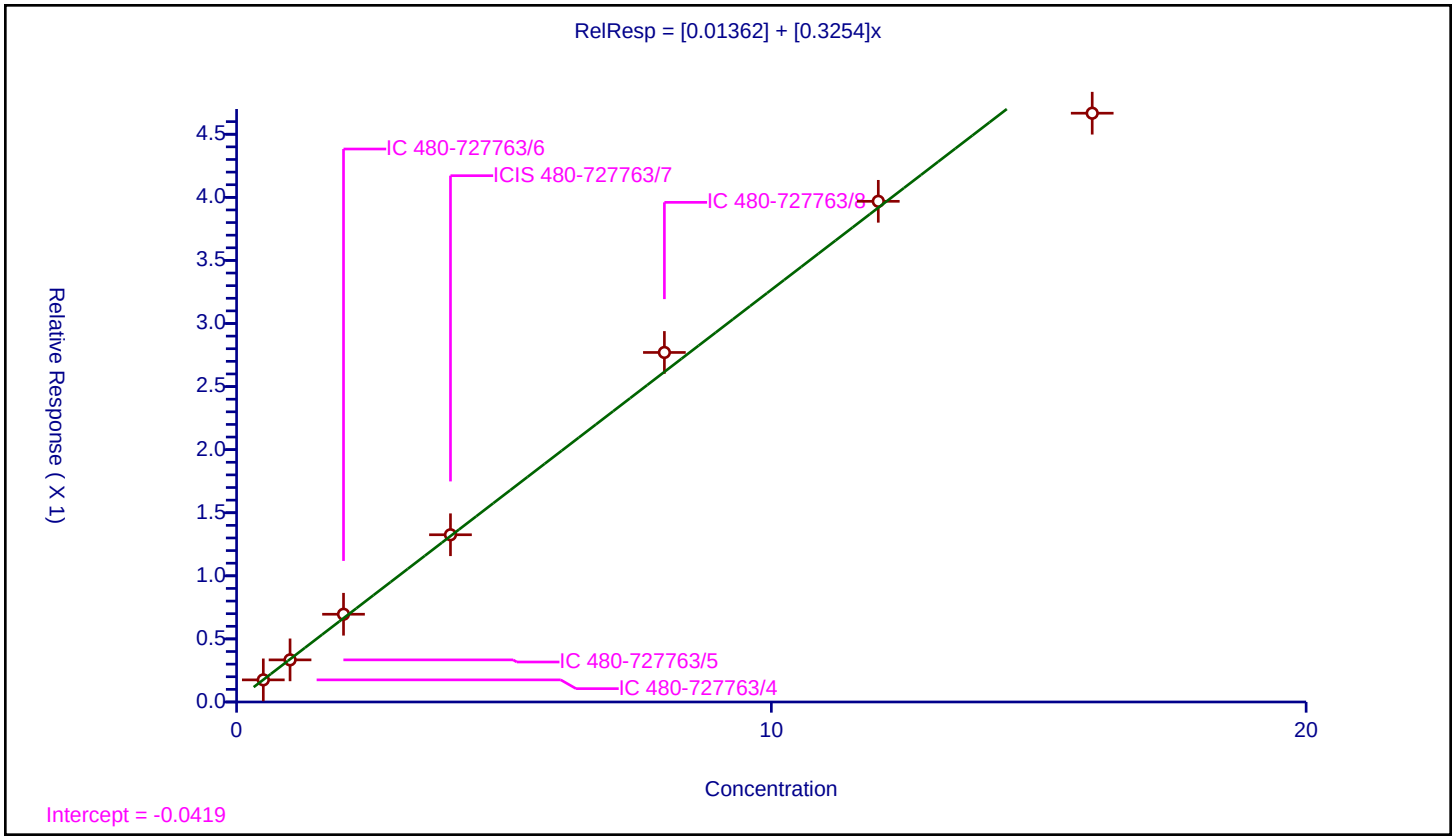
Curve Coefficients

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

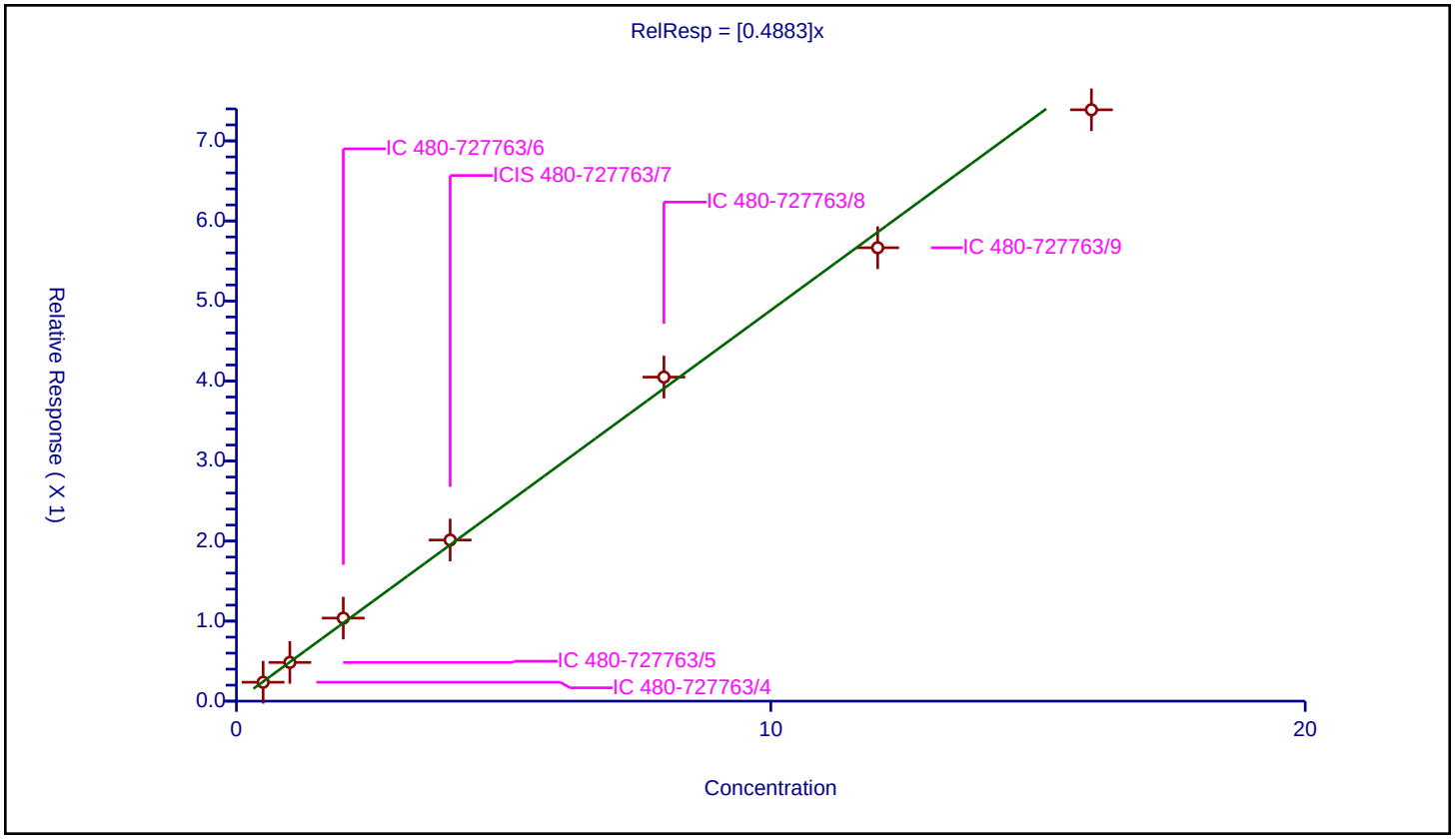
Curve Coefficients

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

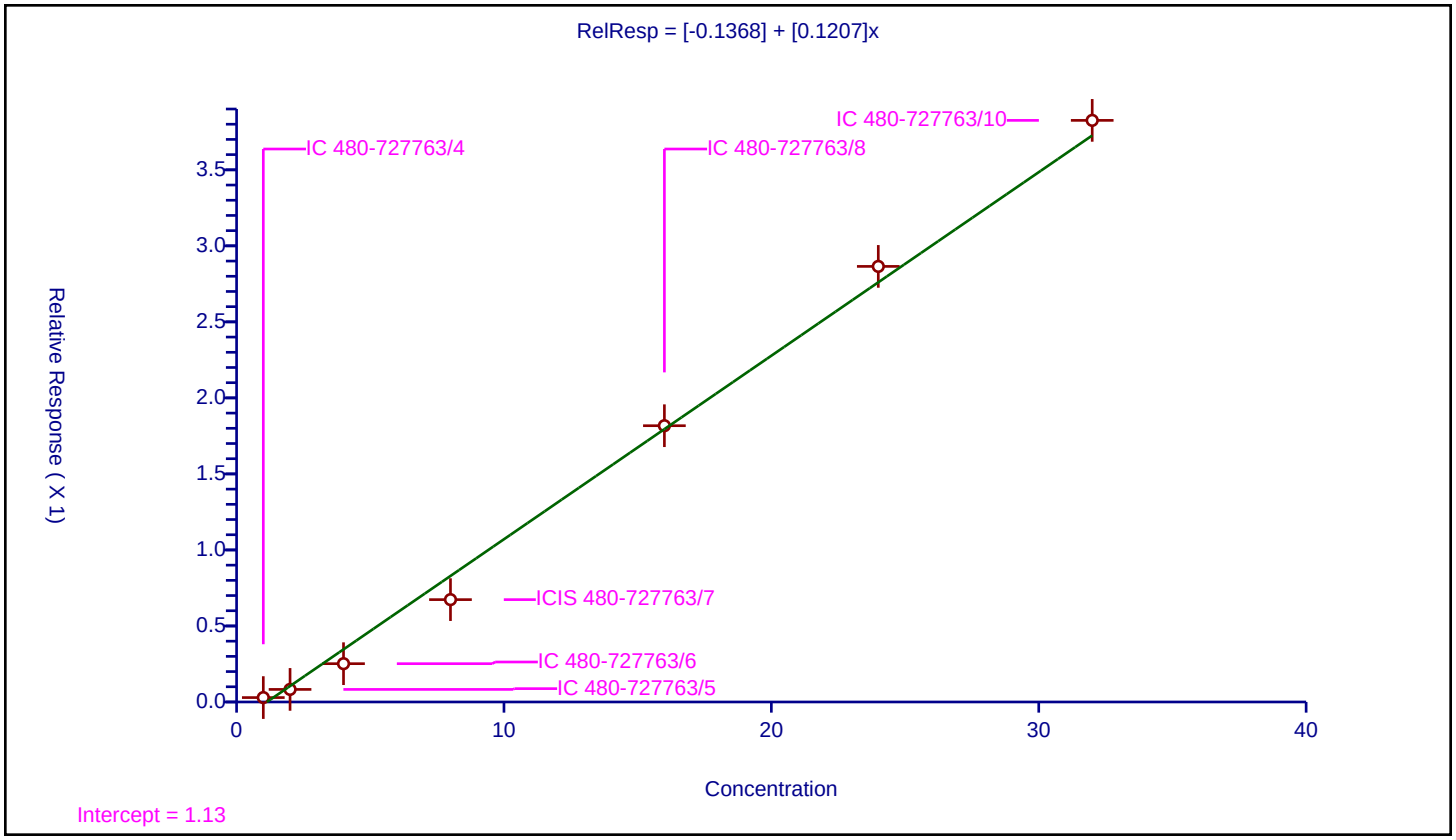
Curve Coefficients

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

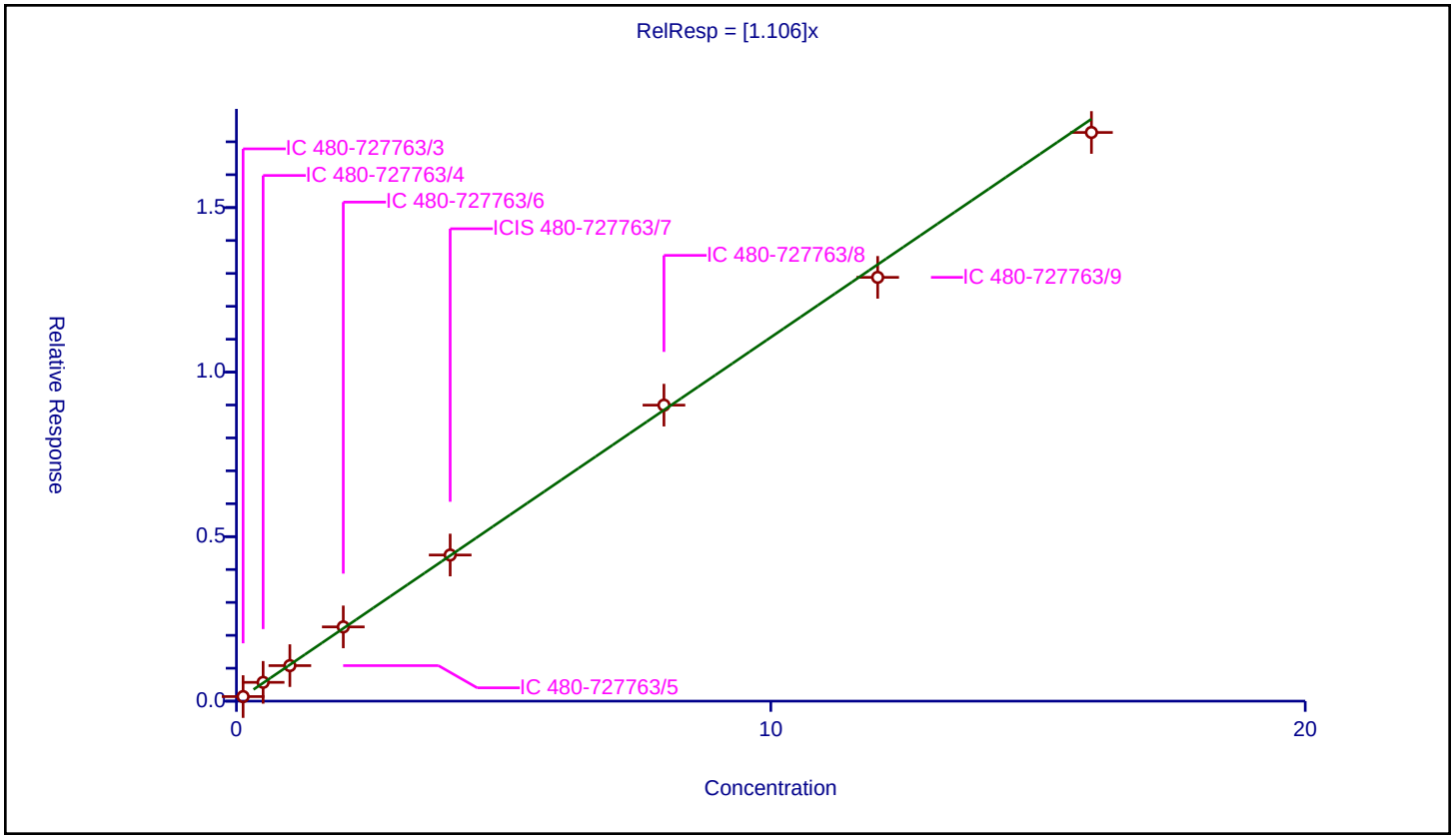
Curve Coefficients

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

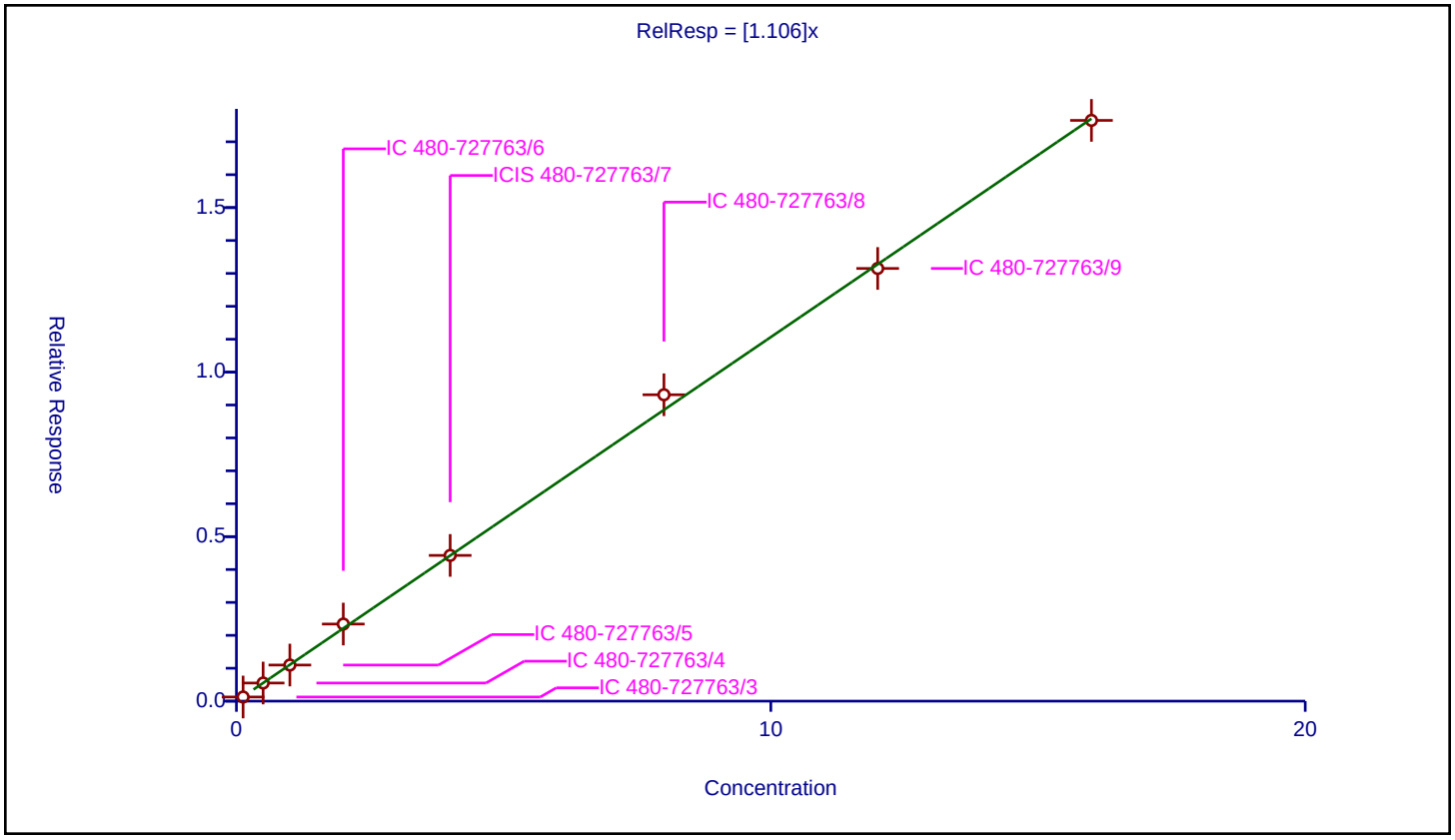
Curve Coefficients

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

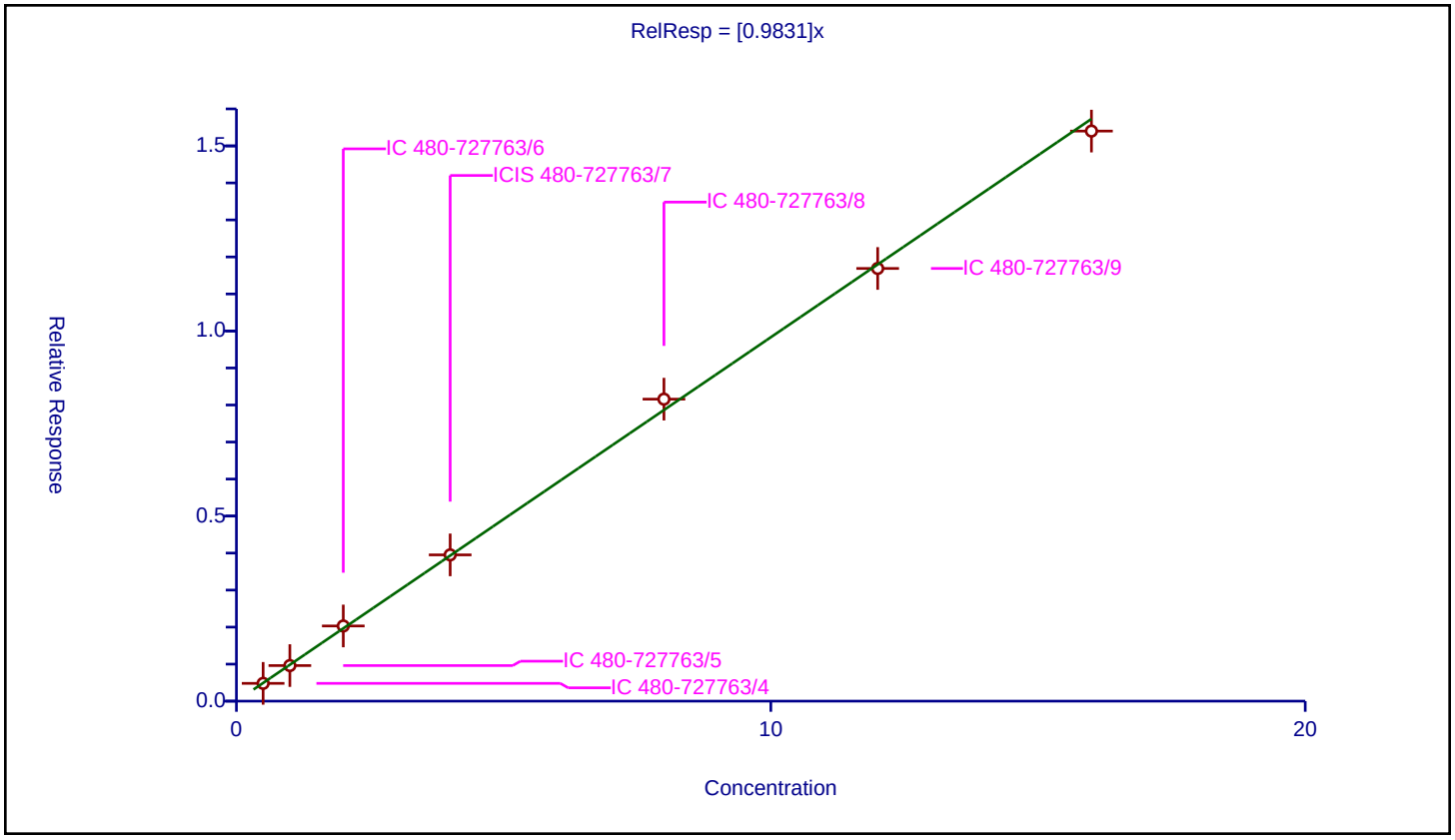
Curve Coefficients

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

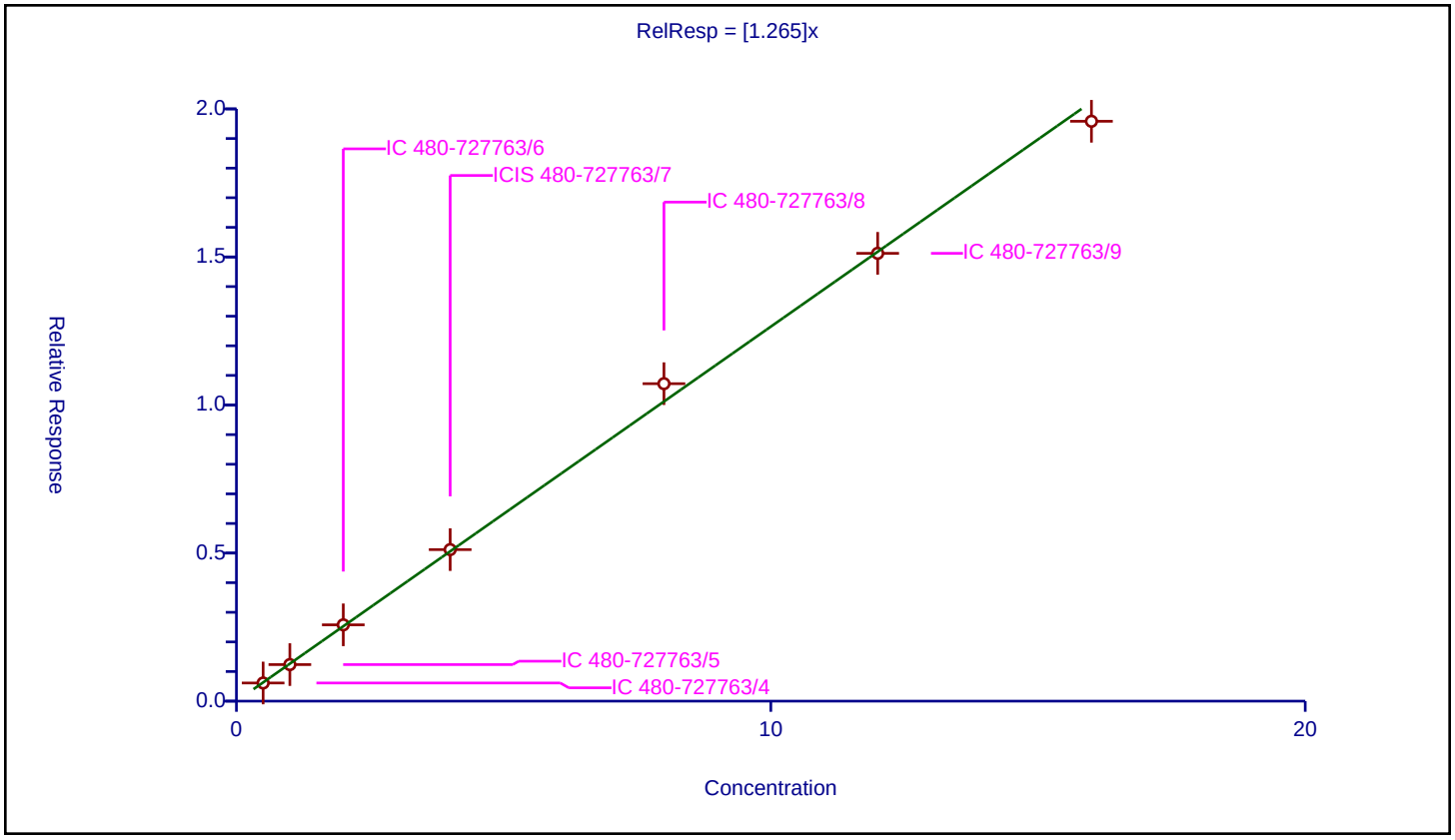
Curve Coefficients

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

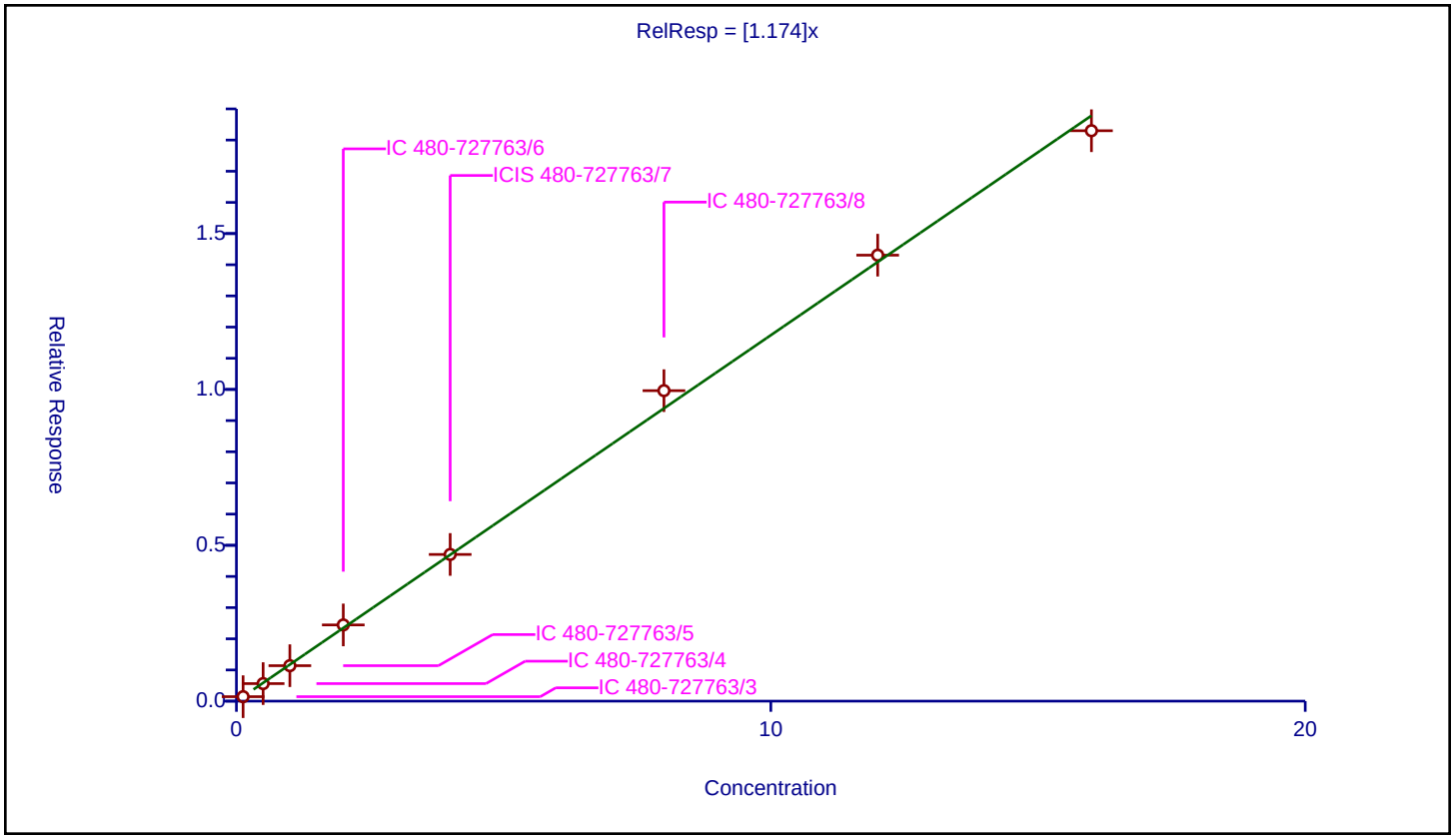
Curve Coefficients

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

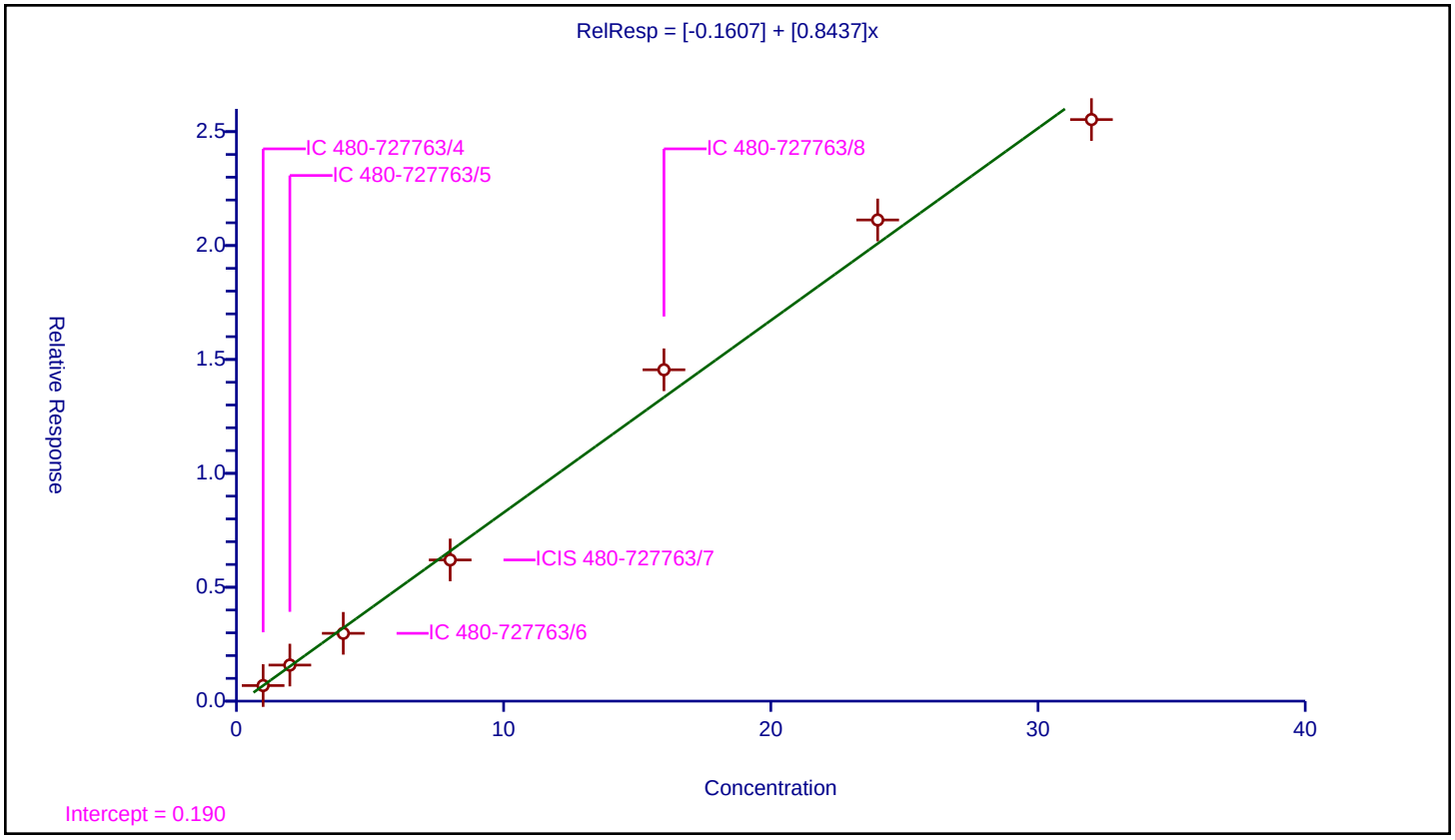
Curve Coefficients

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



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

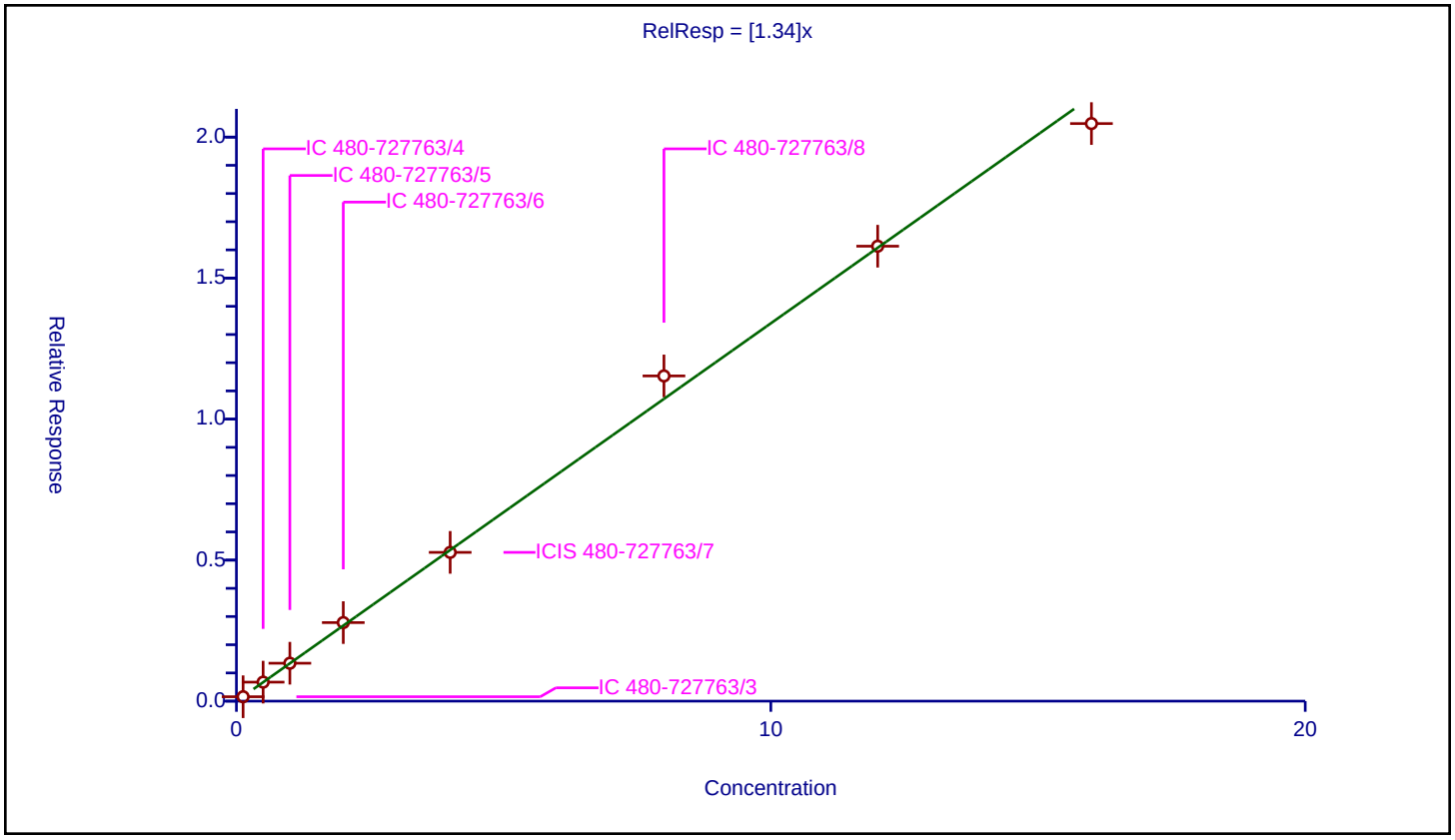
Curve Coefficients

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

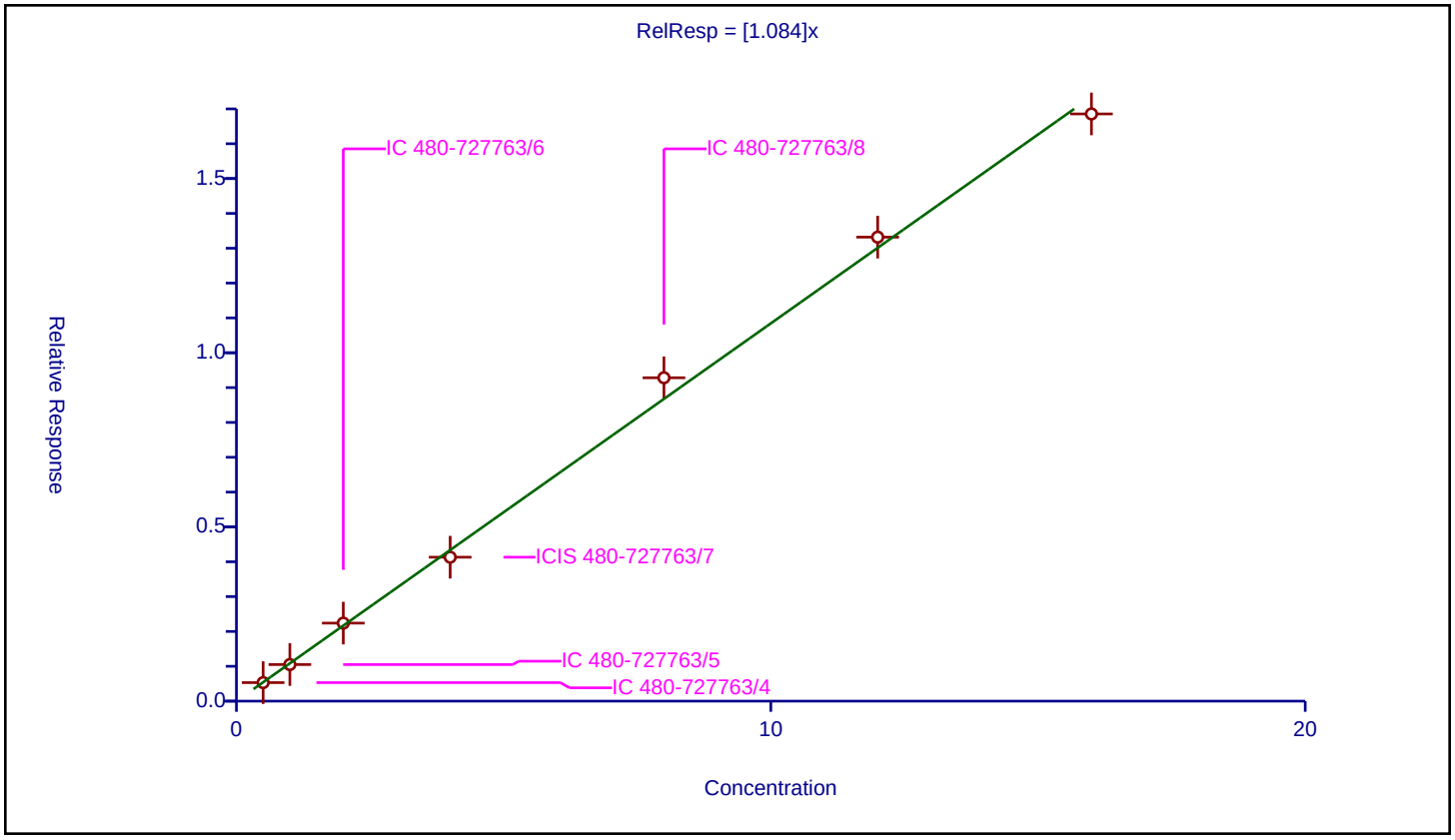
Curve Coefficients

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

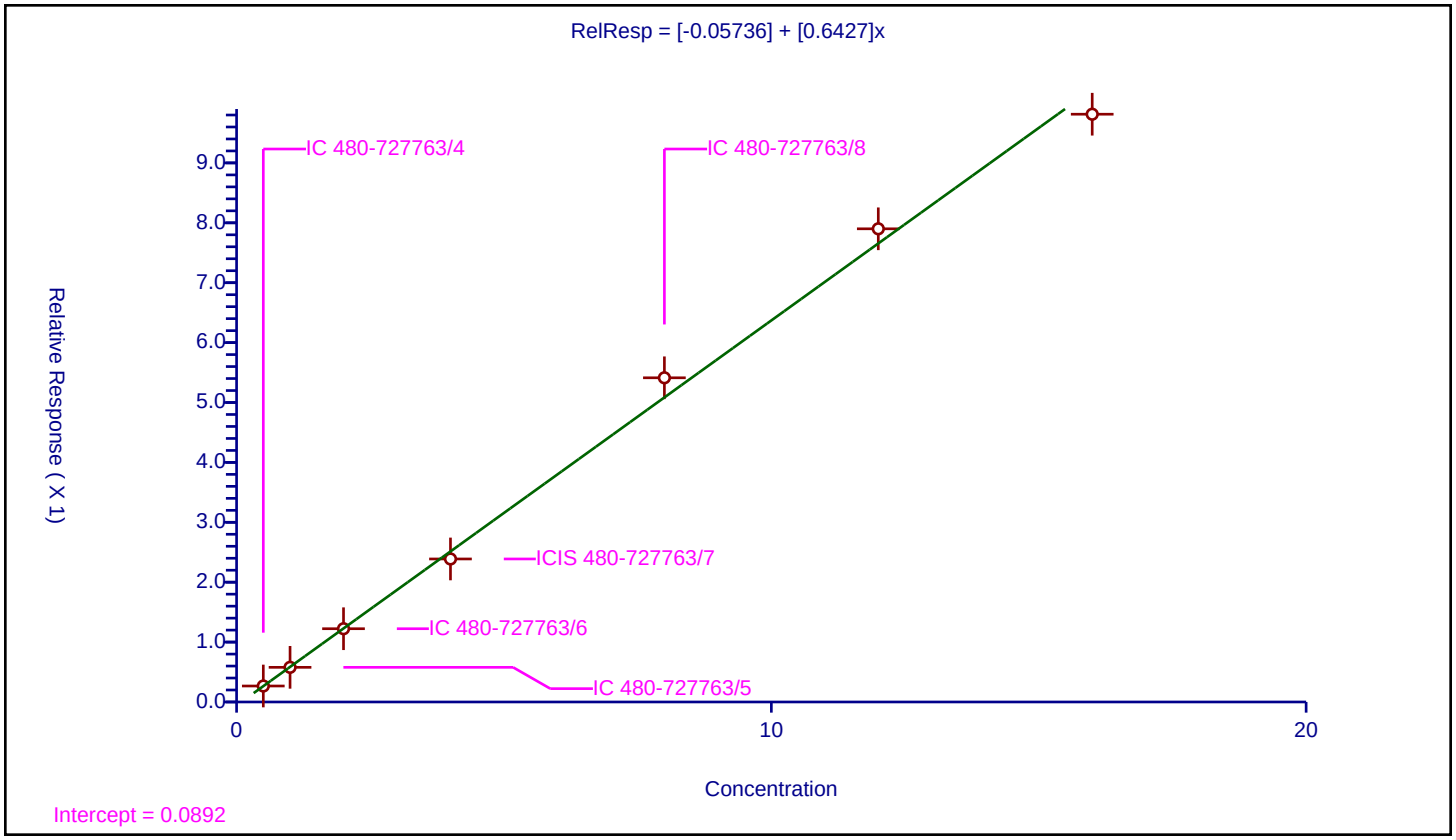
Curve Coefficients

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

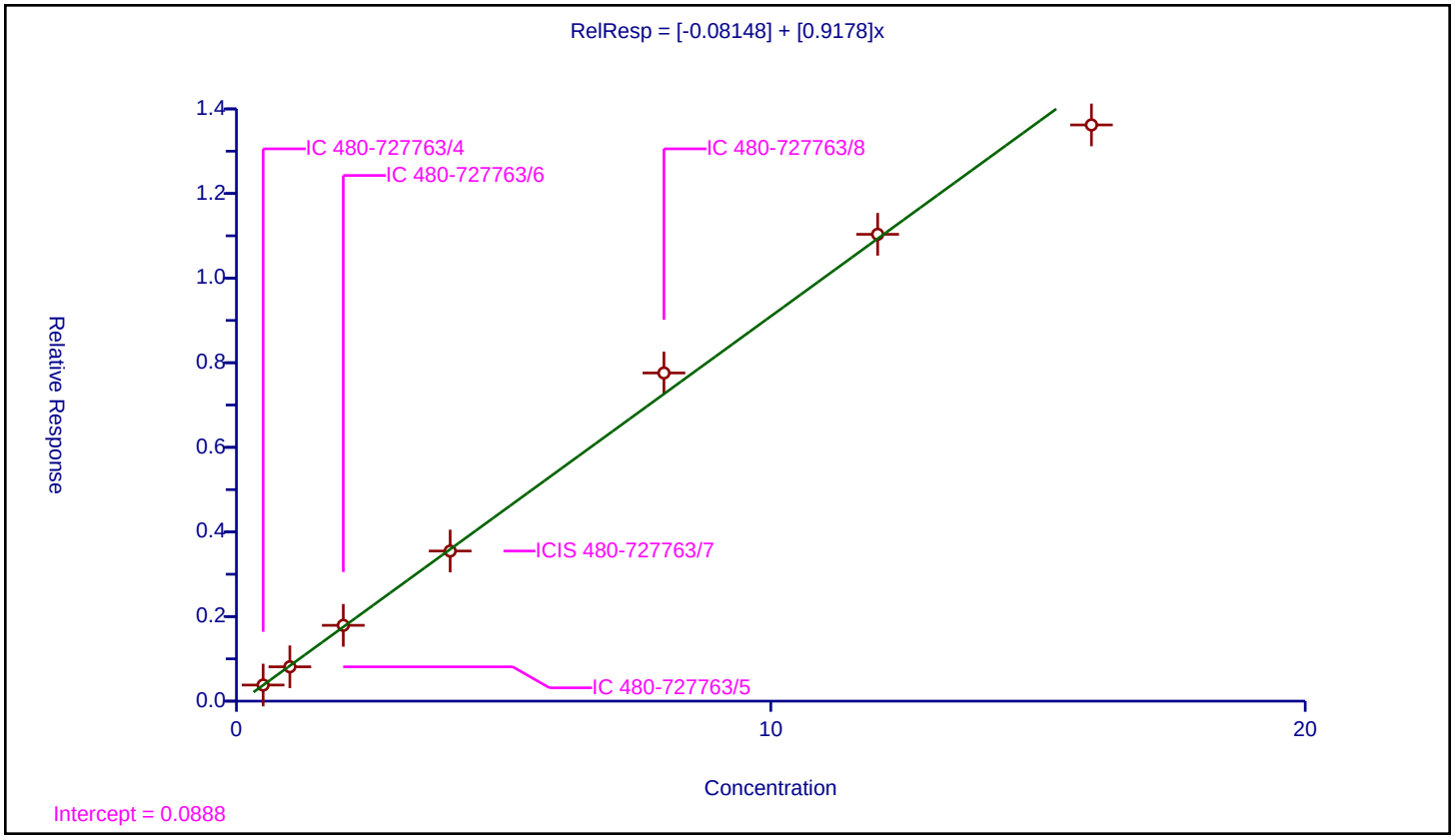
Curve Coefficients

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

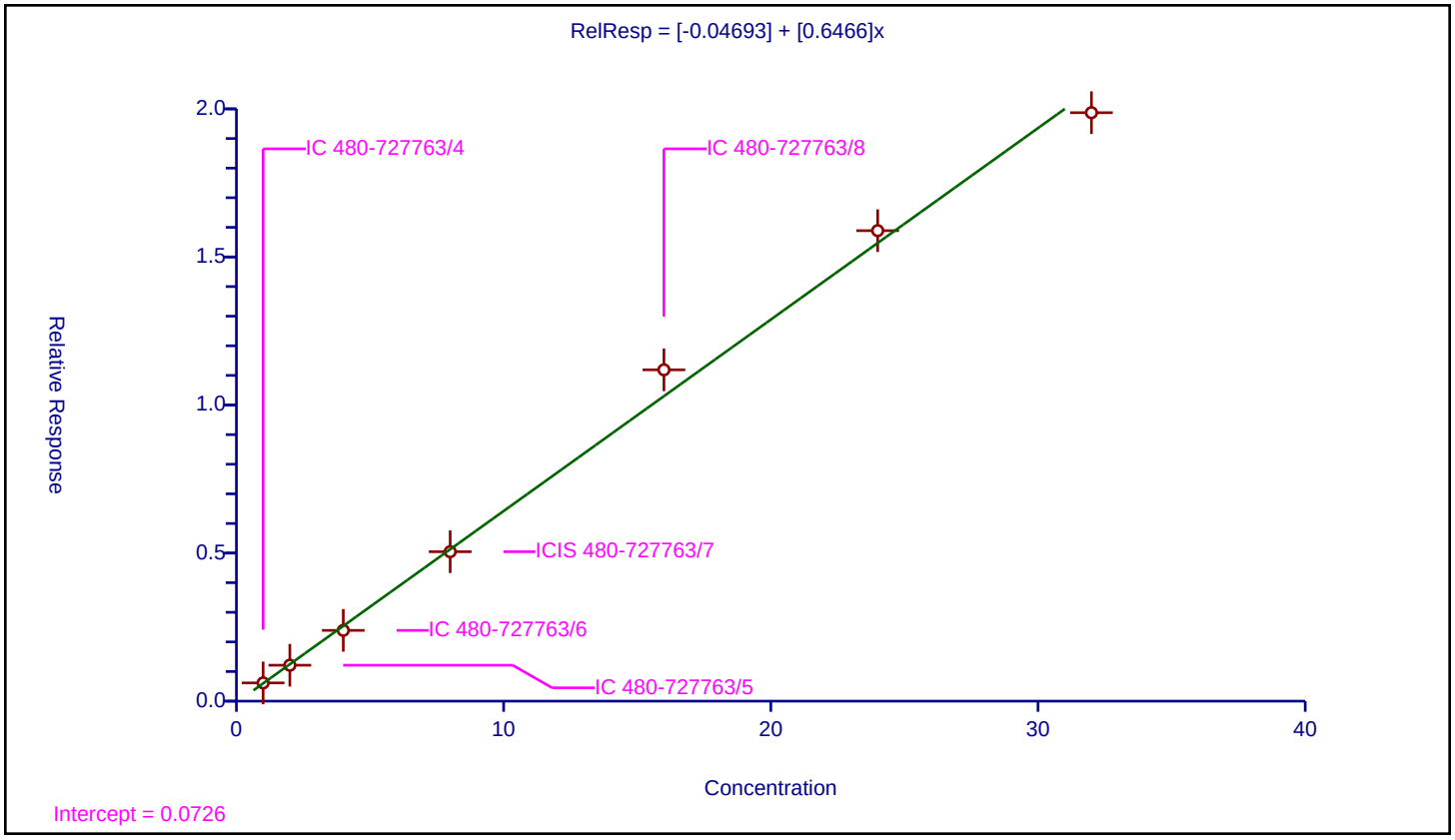
Curve Coefficients

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

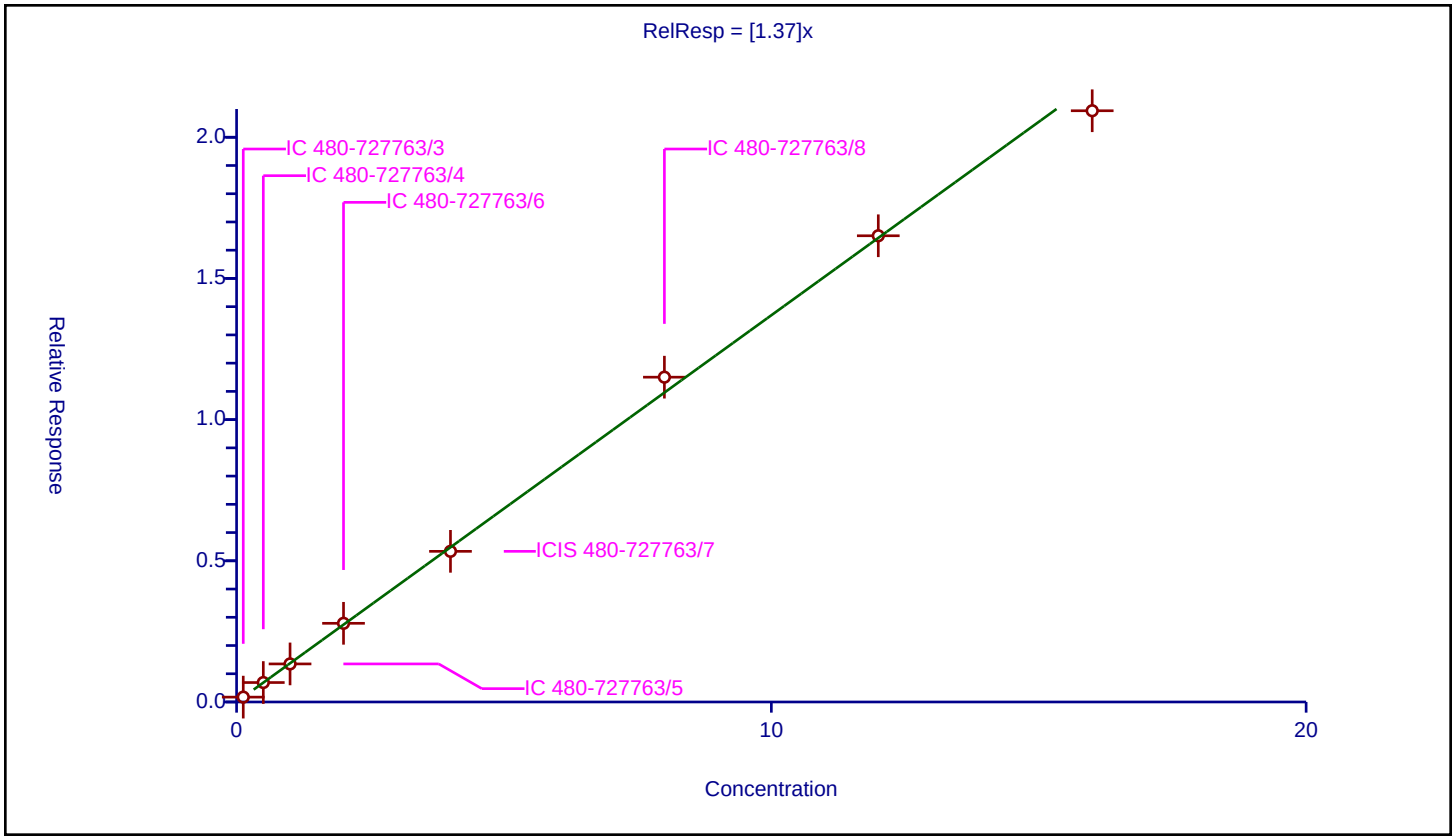
Curve Coefficients

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

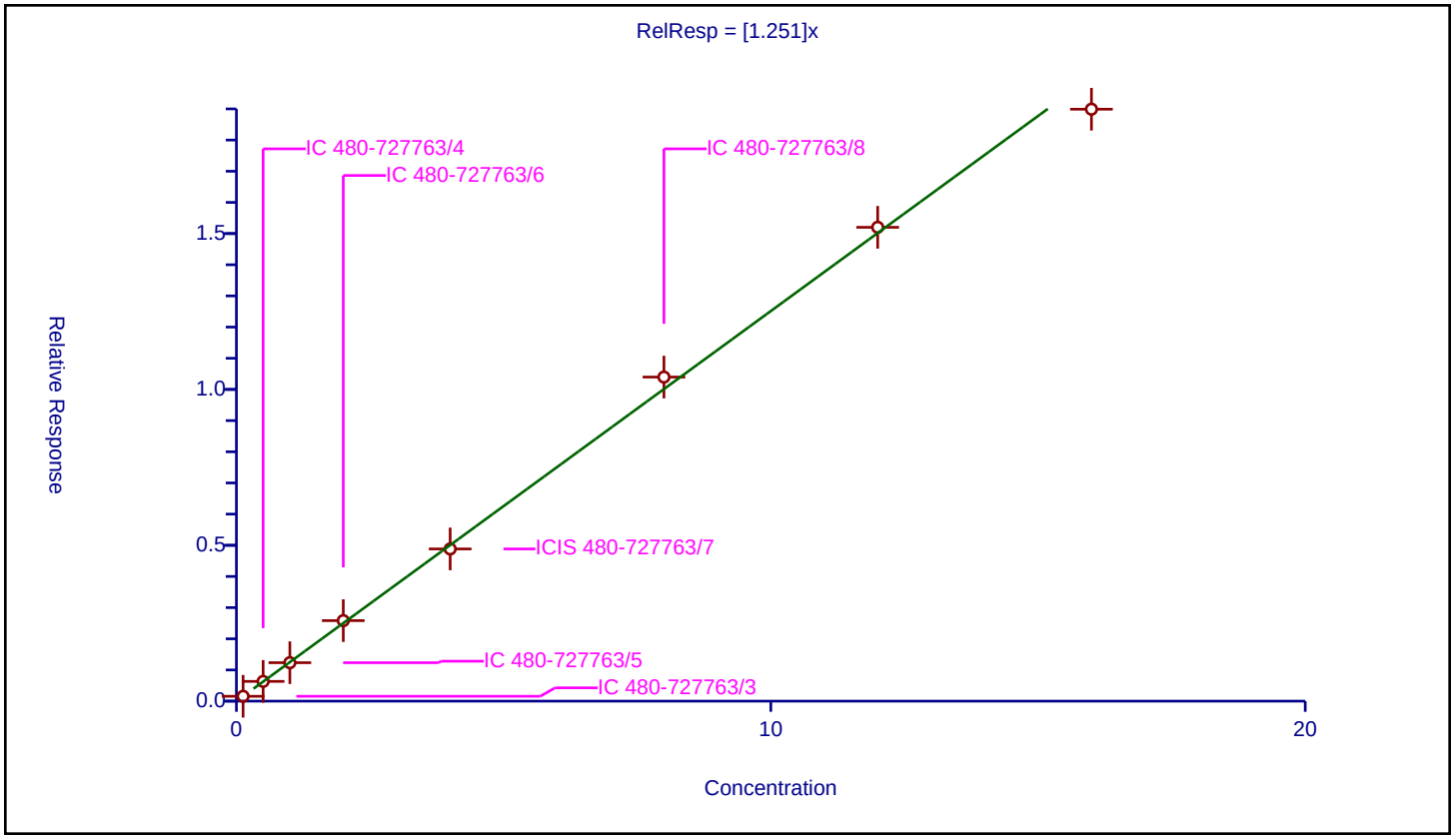
Curve Coefficients

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

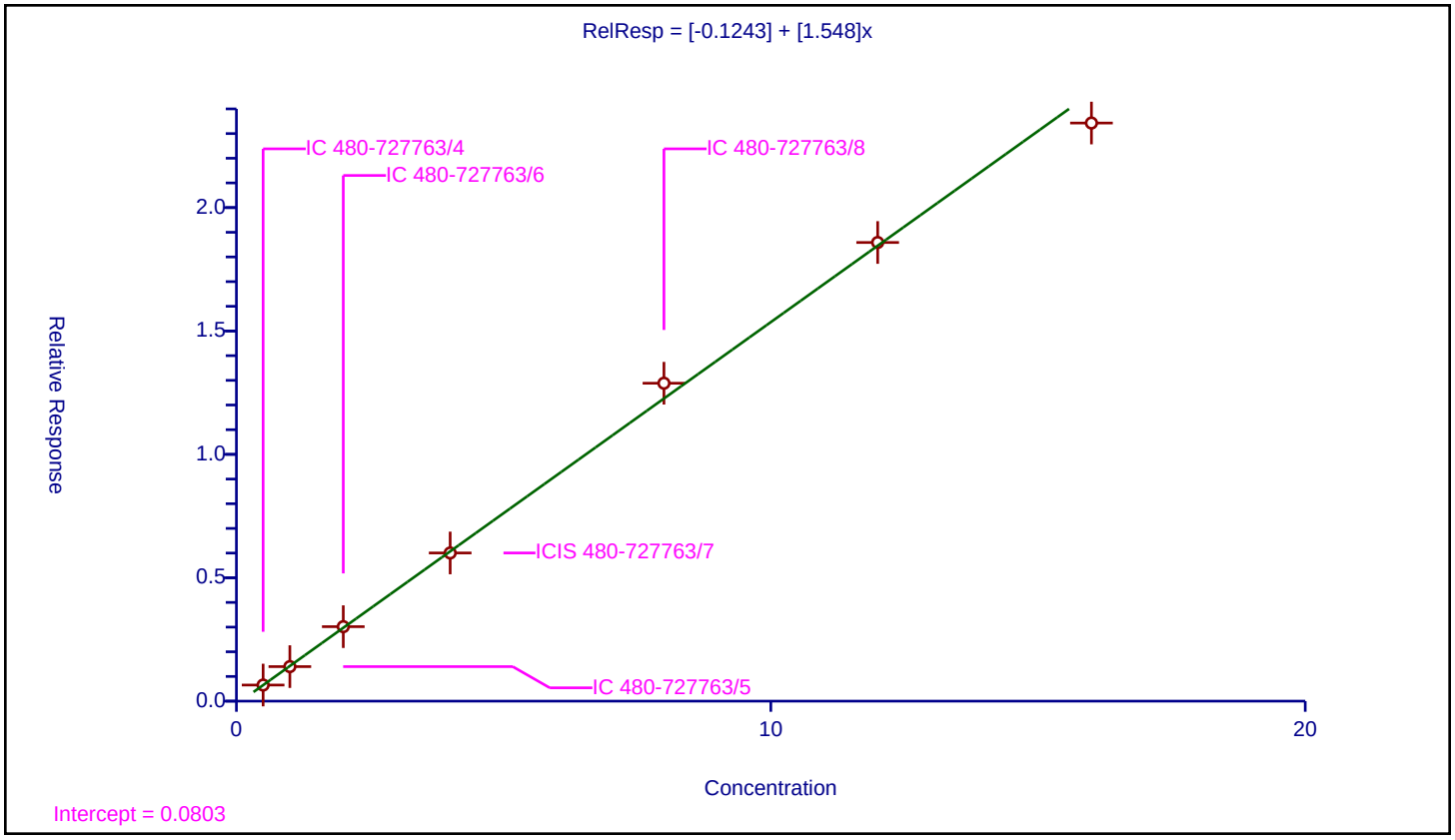
Curve Coefficients

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

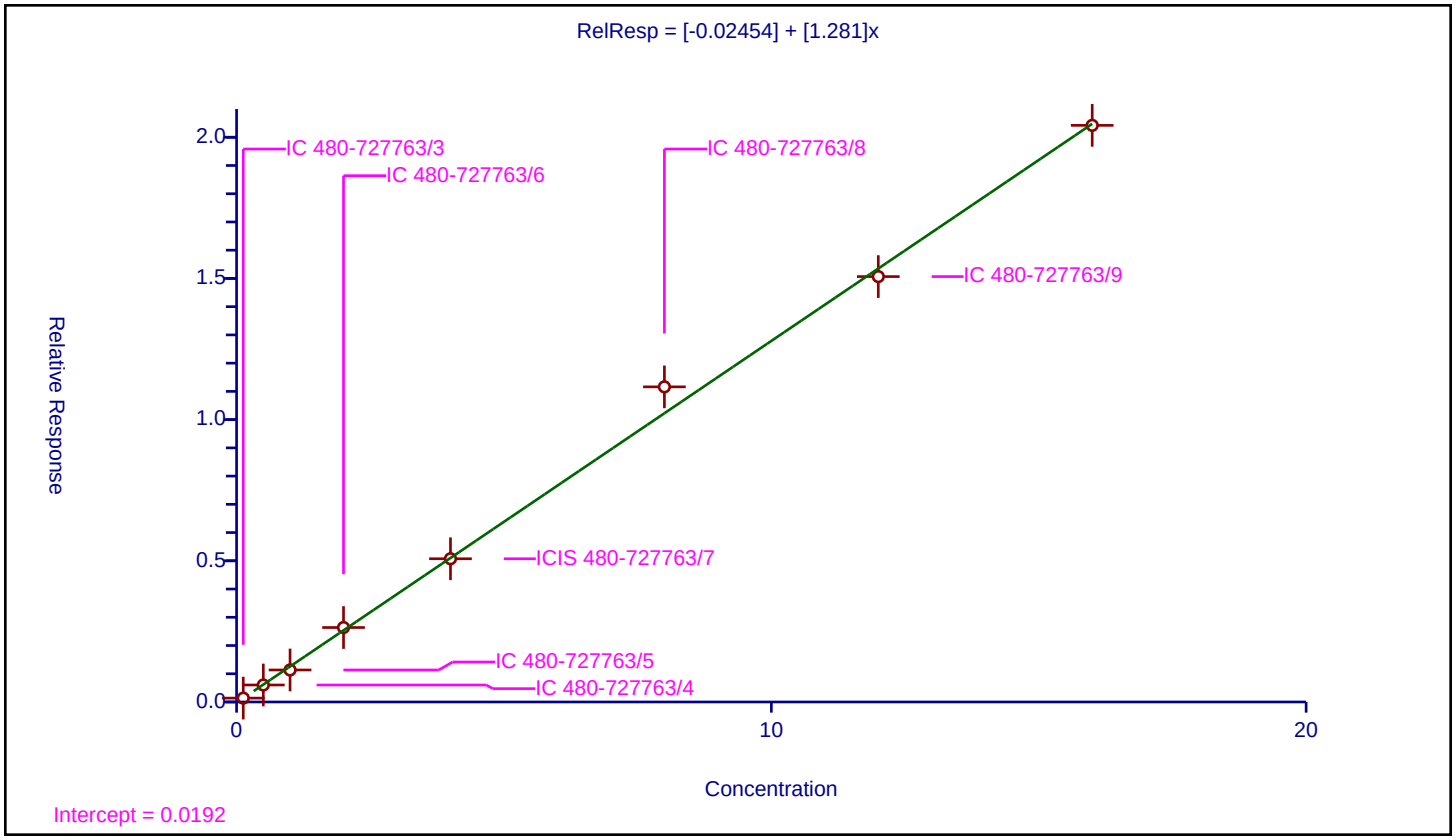
Curve Coefficients

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



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

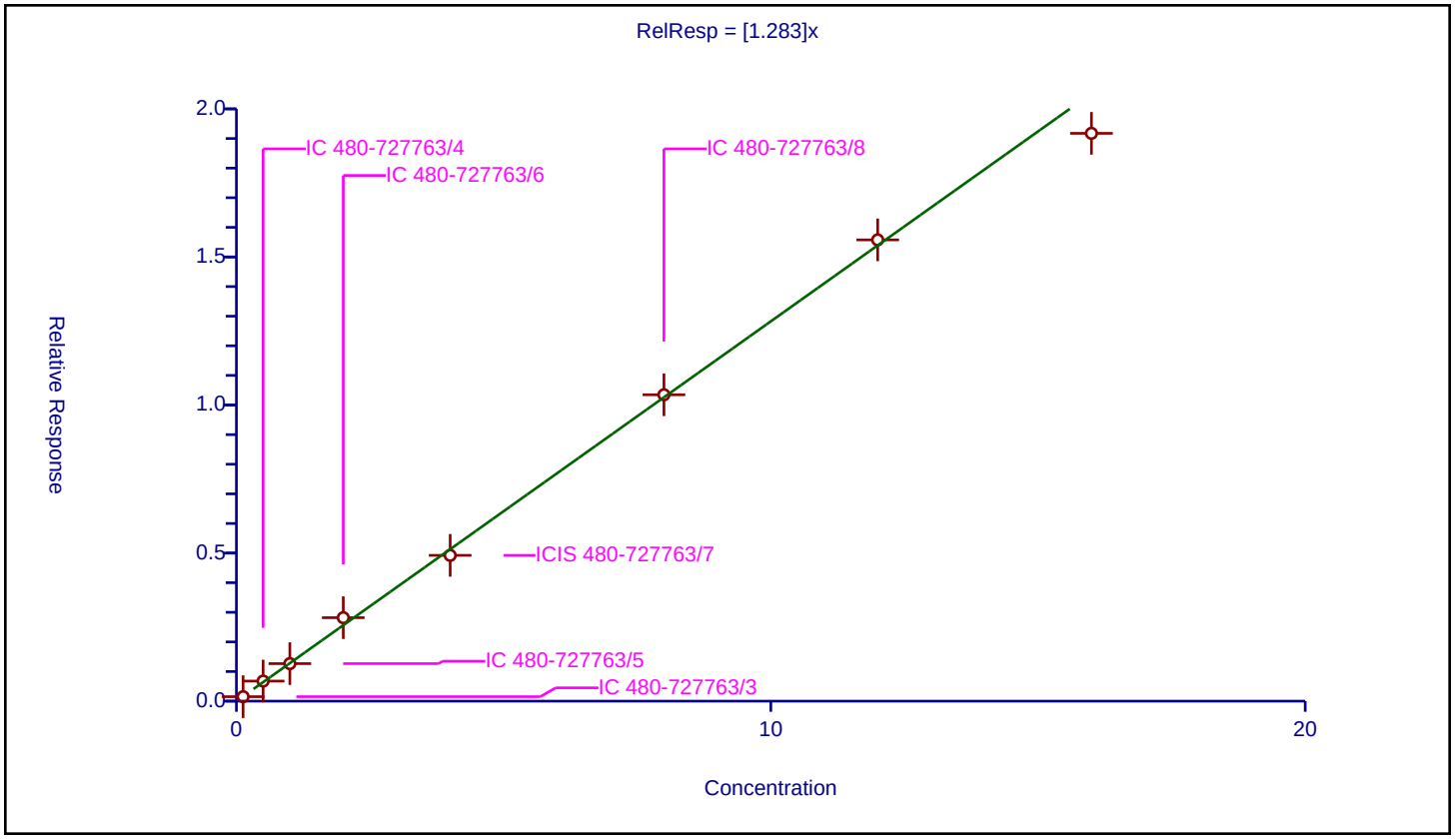
Curve Coefficients

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

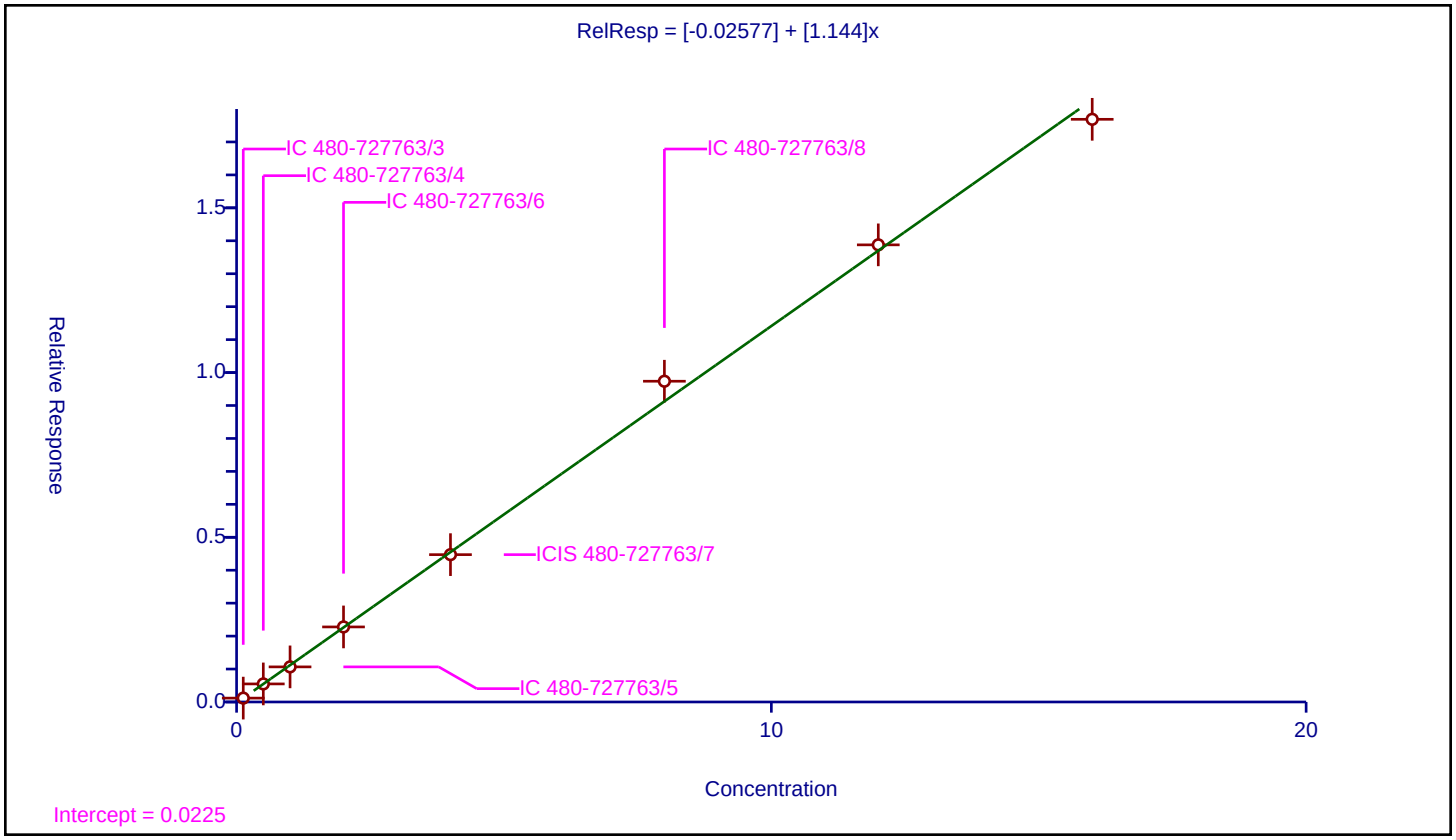
Curve Coefficients

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

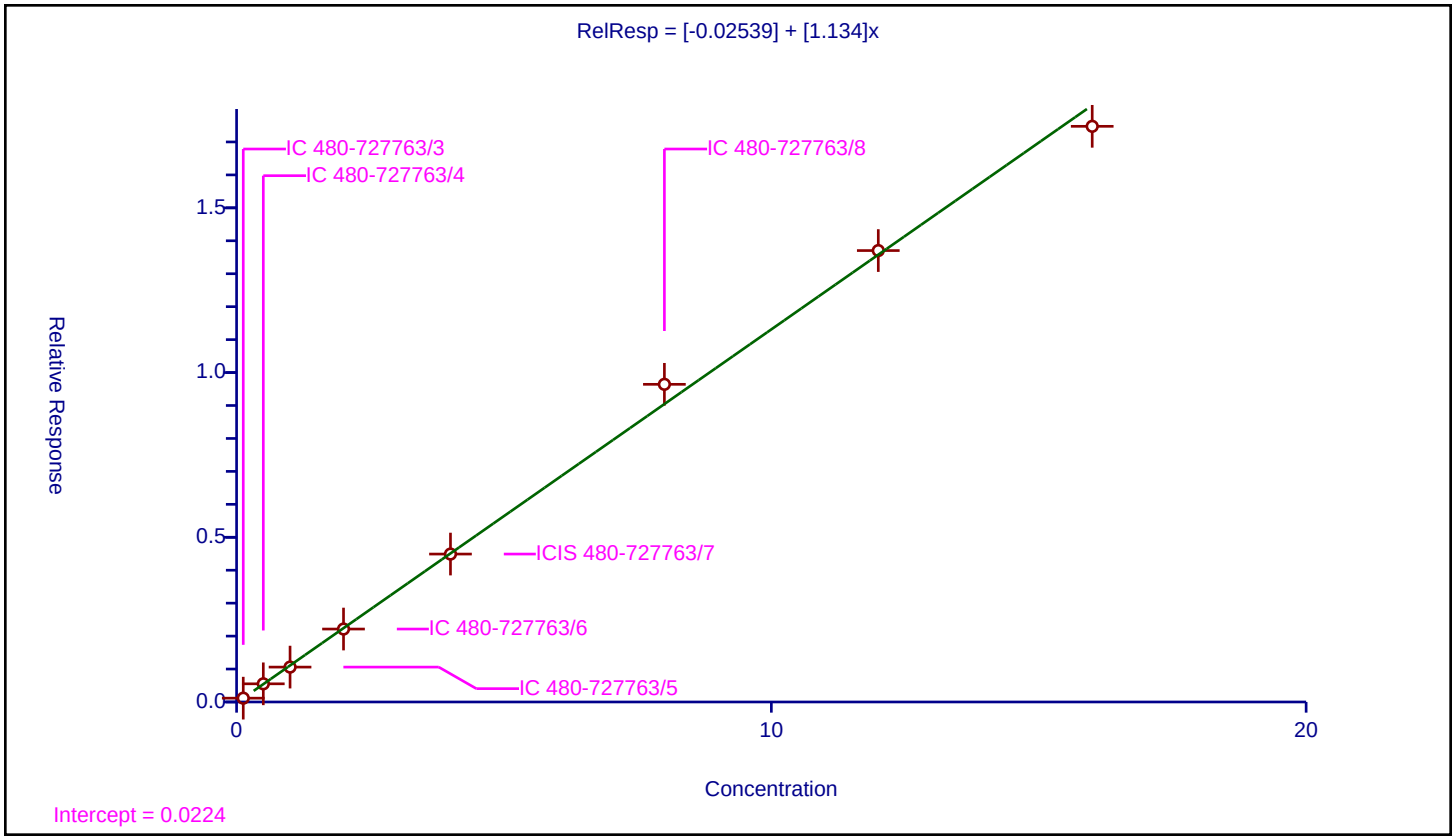
Curve Coefficients

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

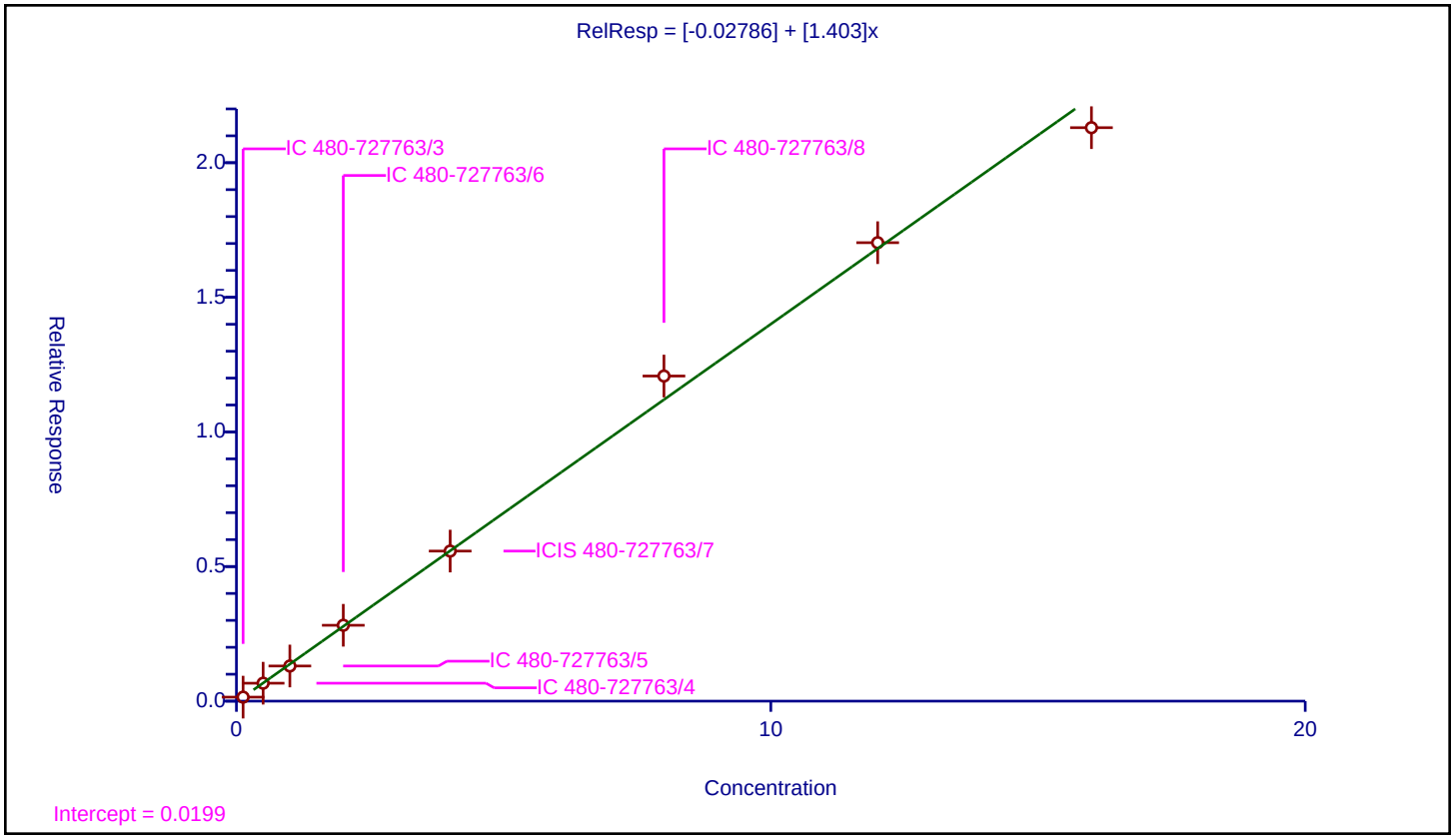
Curve Coefficients

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

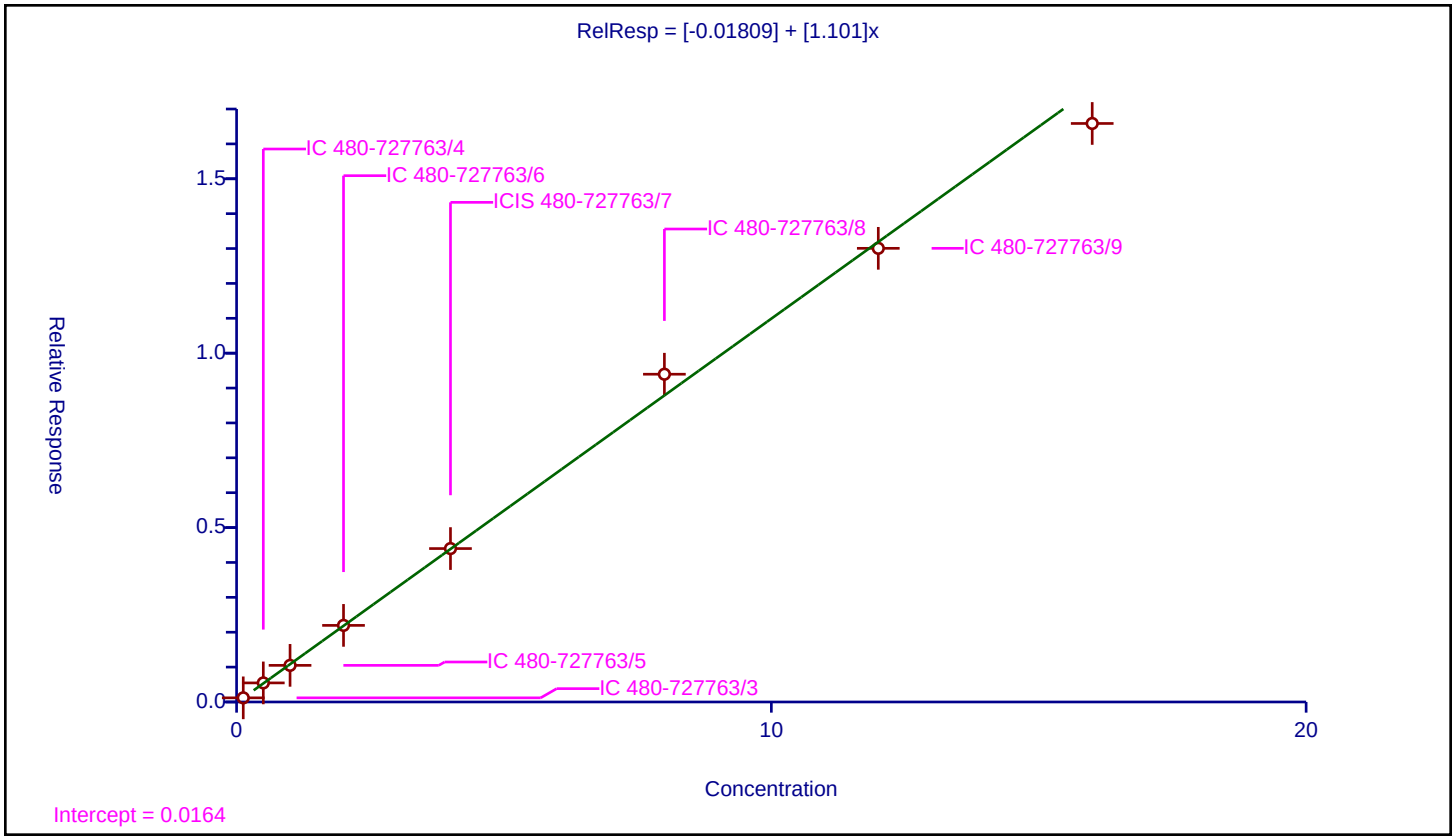
Curve Coefficients

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

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.: 480-224872-1

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.: 480-224872-1

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

Report Date: 11-Oct-2024 11:34:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

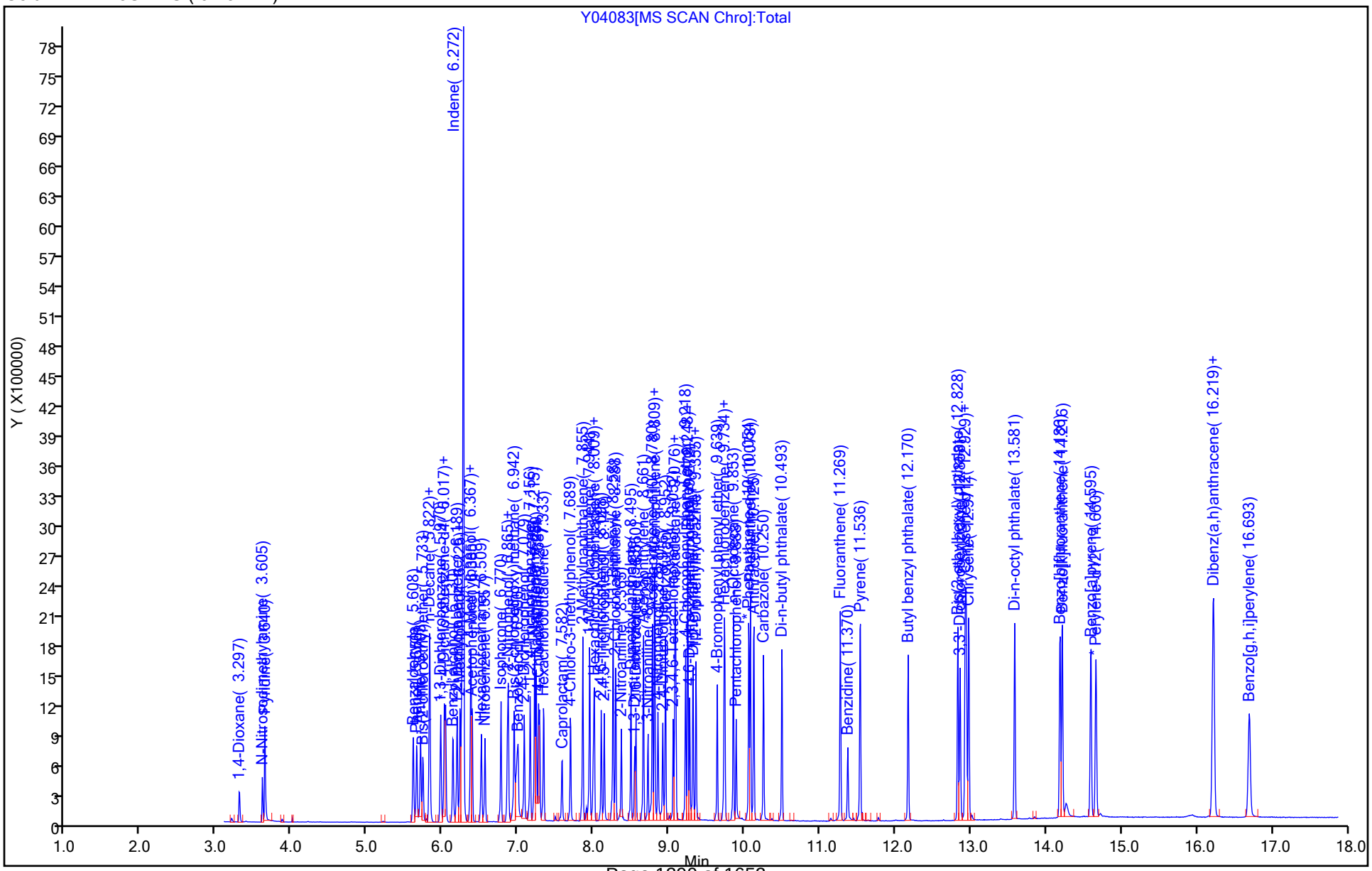
Report Date: 11-Oct-2024 11:34:48 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

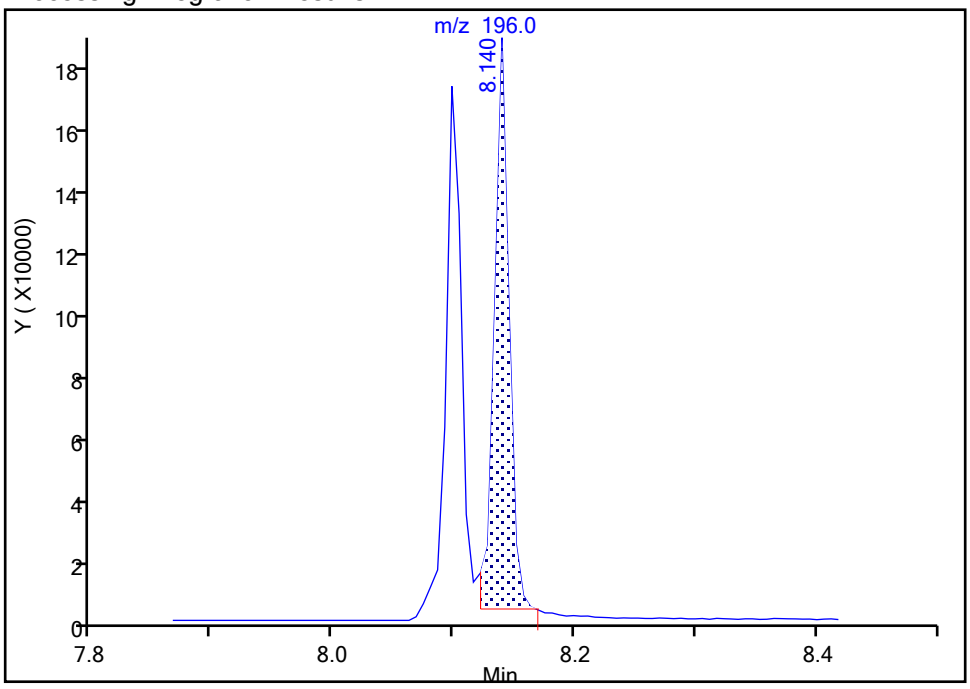
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Injection Date: 10-Oct-2024 18:27:30 Instrument ID: HP5973Y
Lims ID: ICV - List 1 - 4
Client ID:
Operator ID: JM ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

94 2,4,5-Trichlorophenol, CAS: 95-95-4

Signal: 1

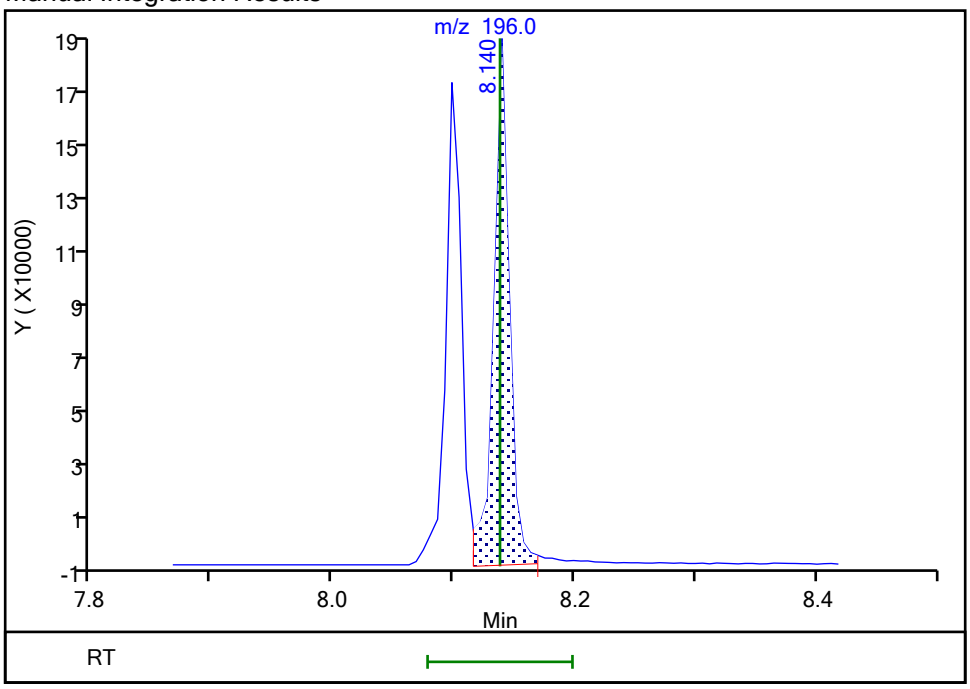
Processing Integration Results

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.: 480-224872-1

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.: 480-224872-1

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.: 480-224872-1

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 (Surr)	Ave	1.232	1.235	0.0100	4010	4000	0.2	20.0
Phenol-d5 (Surr)	Ave	1.523	1.519	0.0100	3990	4000	-0.2	20.0
Nitrobenzene-d5 (Surr)	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 (Surr)	Lin2		0.0841	0.0100	3470	4000	-13.1	20.0
p-Terphenyl-d14 (Surr)	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

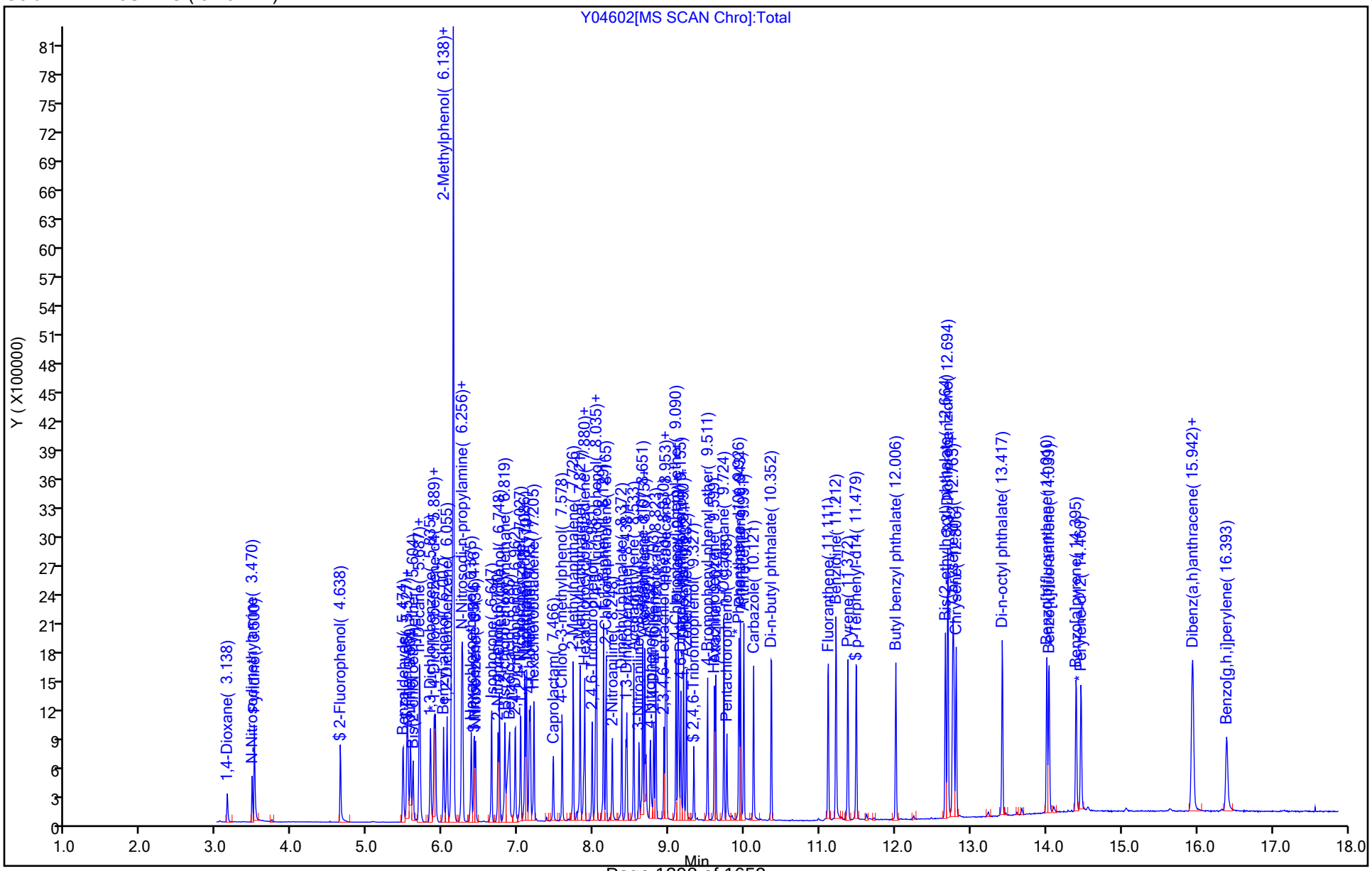
Report Date: 30-Oct-2024 16:06:34 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

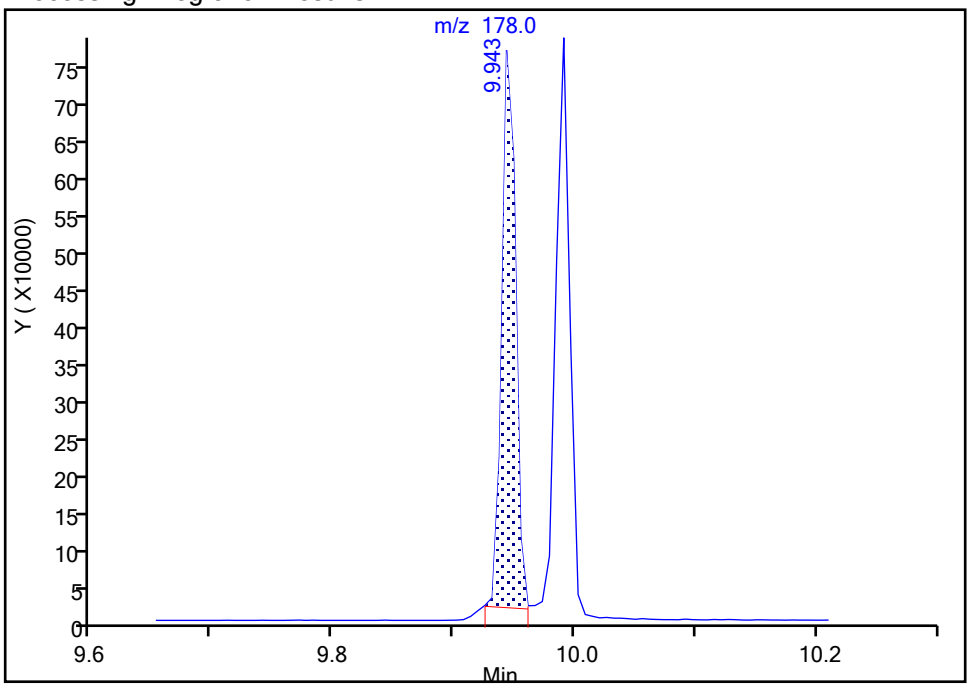
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Injection Date: 30-Oct-2024 10:18:30 Instrument ID: HP5973Y
Lims ID: CCVIS
Client ID:
Operator ID: JM ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL
Column: RXI-5Sil MS (0.25 mm) Detector MS SCAN

151 Phenanthrene, CAS: 85-01-8

Signal: 1

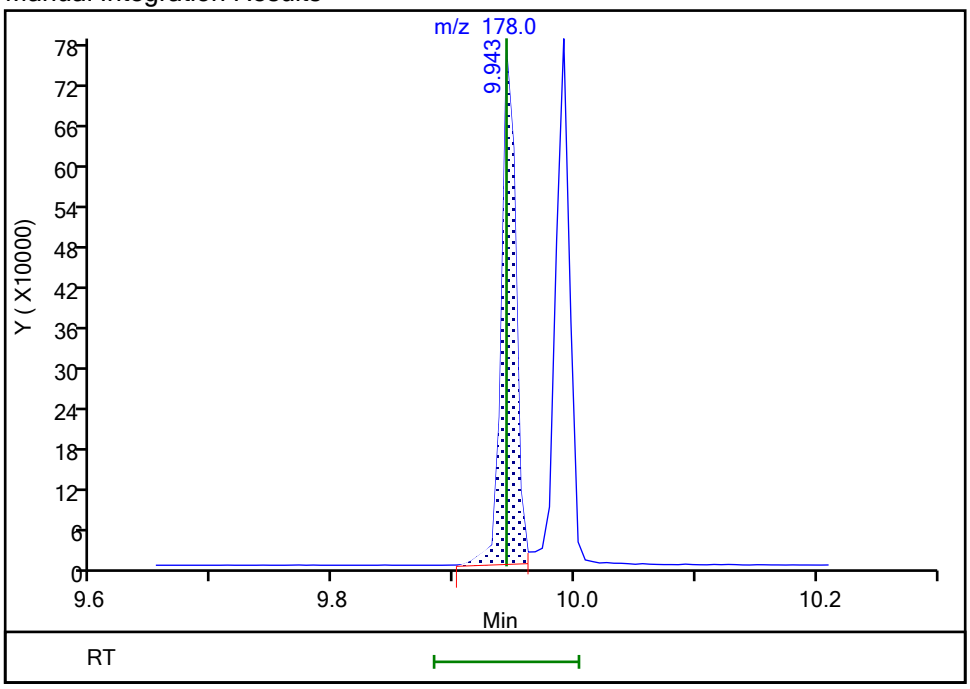
Processing Integration Results

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:

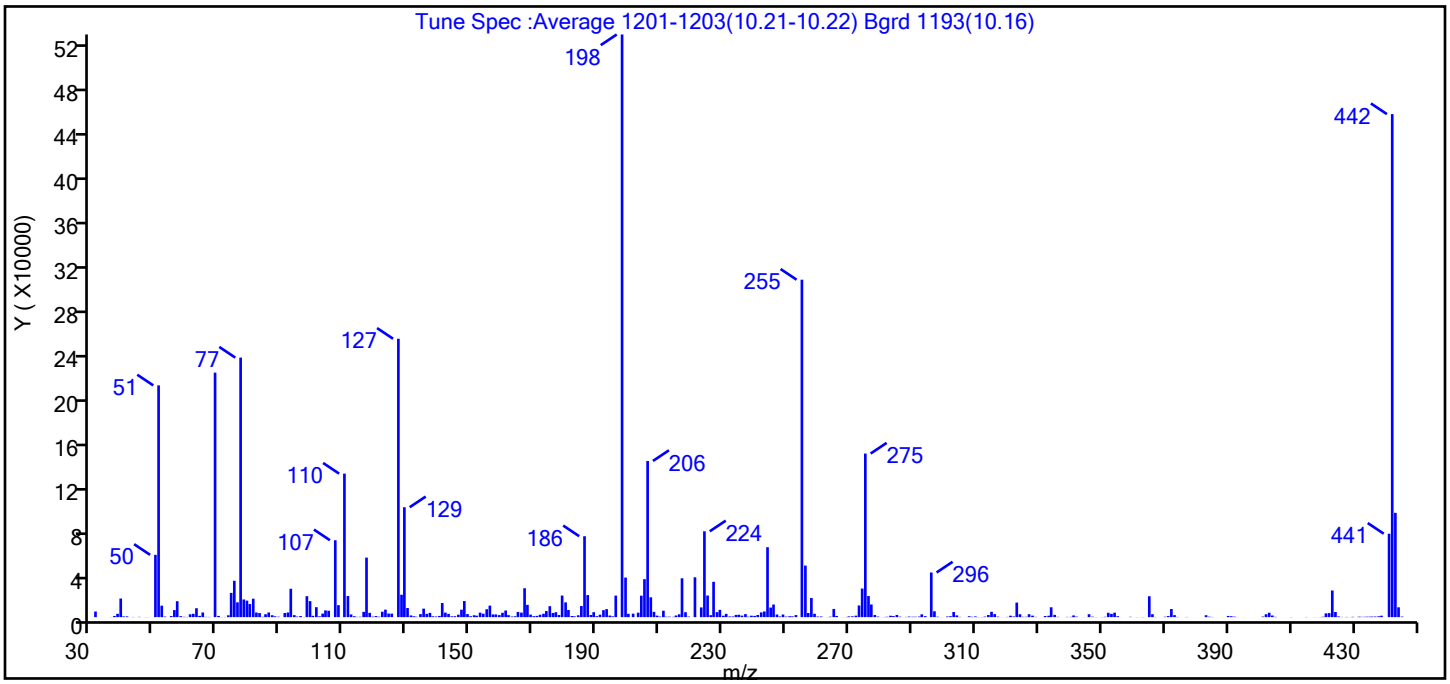
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

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)

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
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		

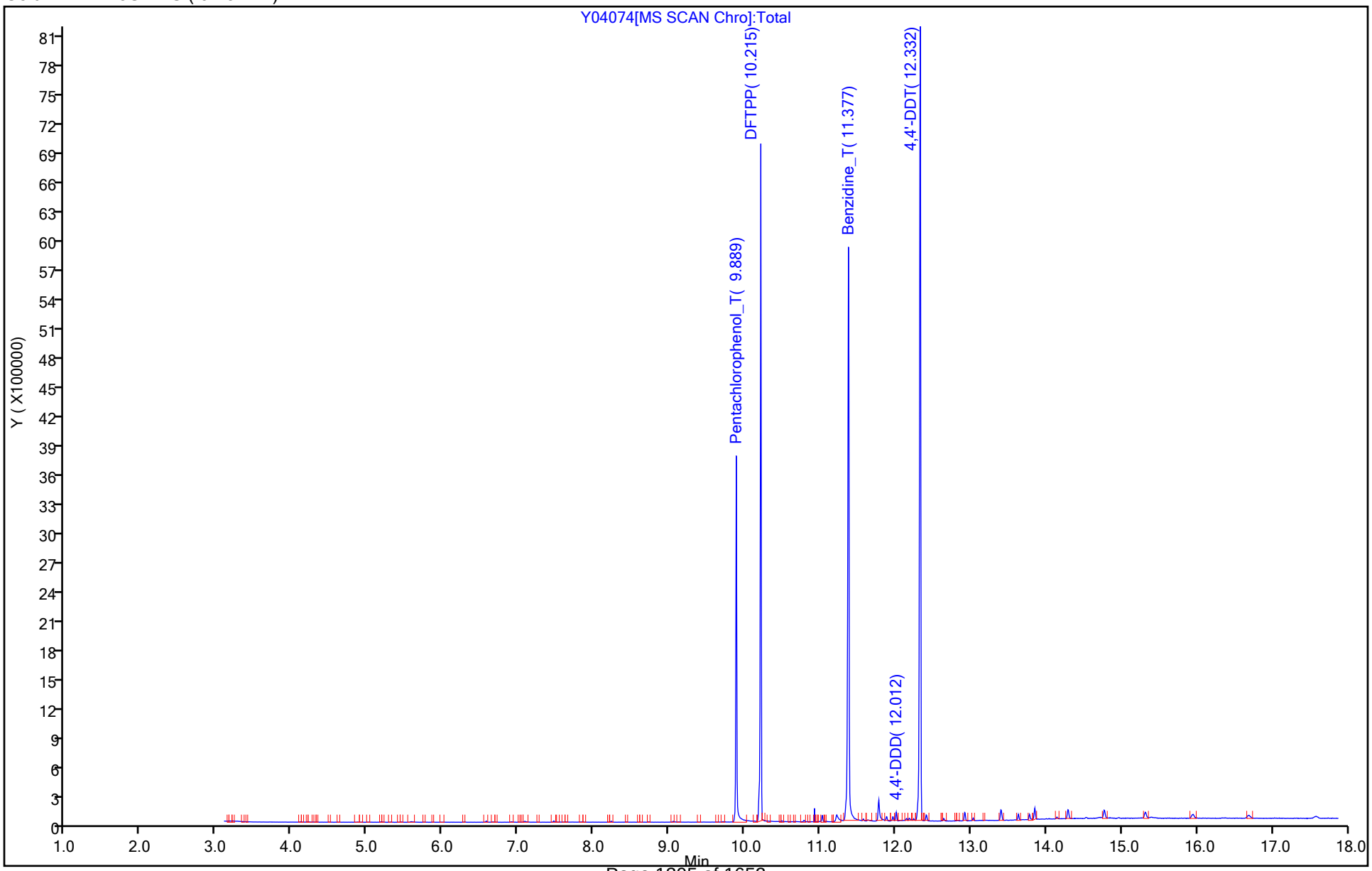
Report Date: 11-Oct-2024 11:34:43 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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)

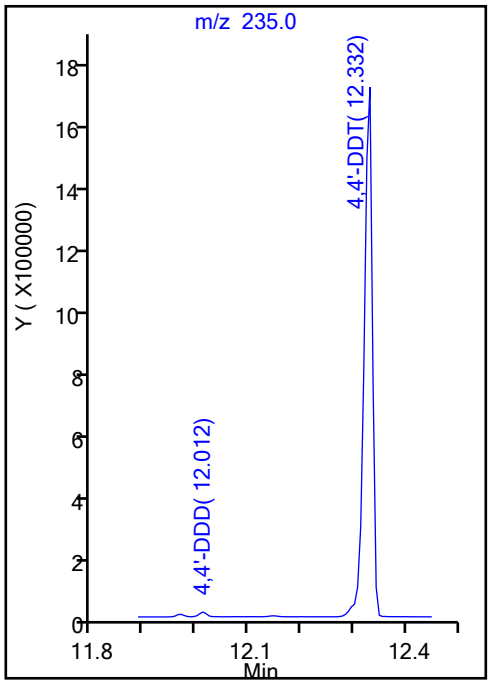


Breakdown Report

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

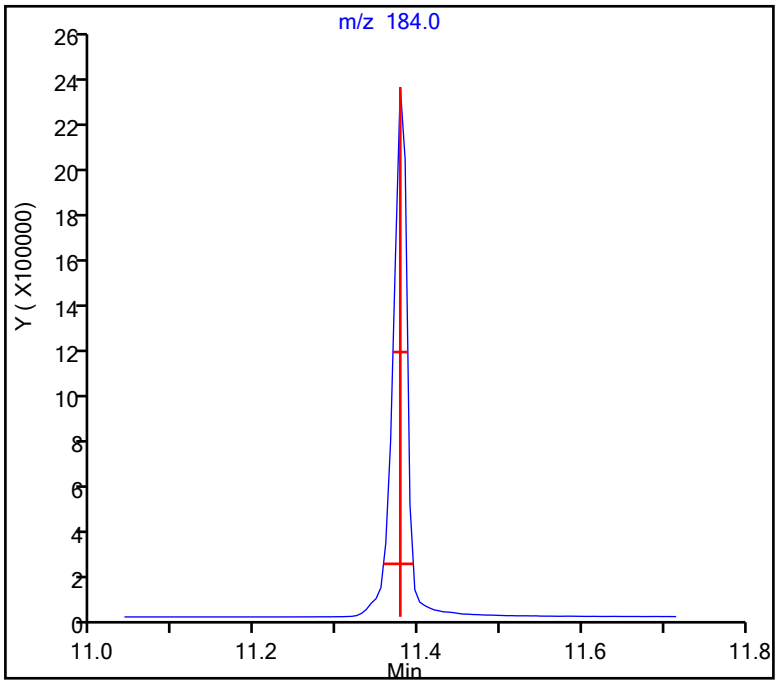
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

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

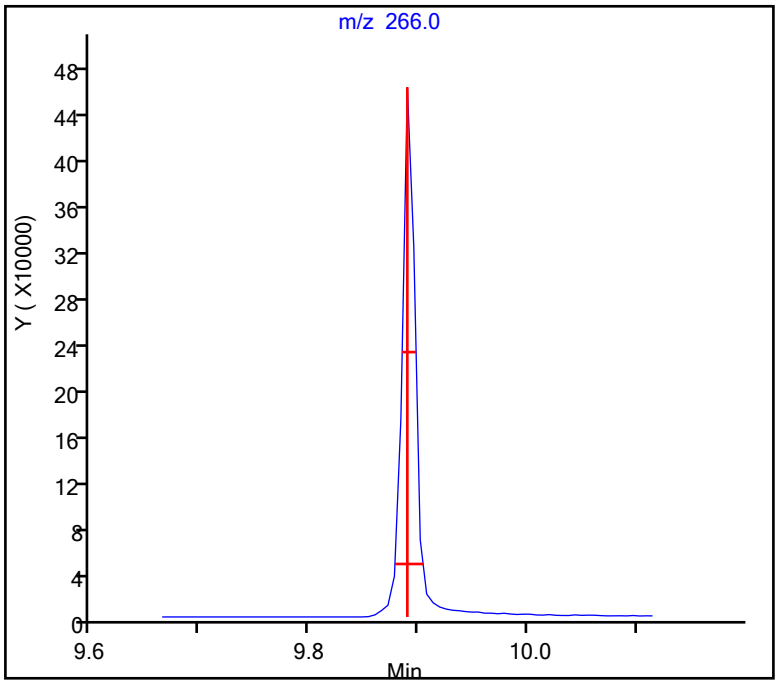
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241010-120477.b\Y04074.D
Injection Date: 10-Oct-2024 14:20:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

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\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:

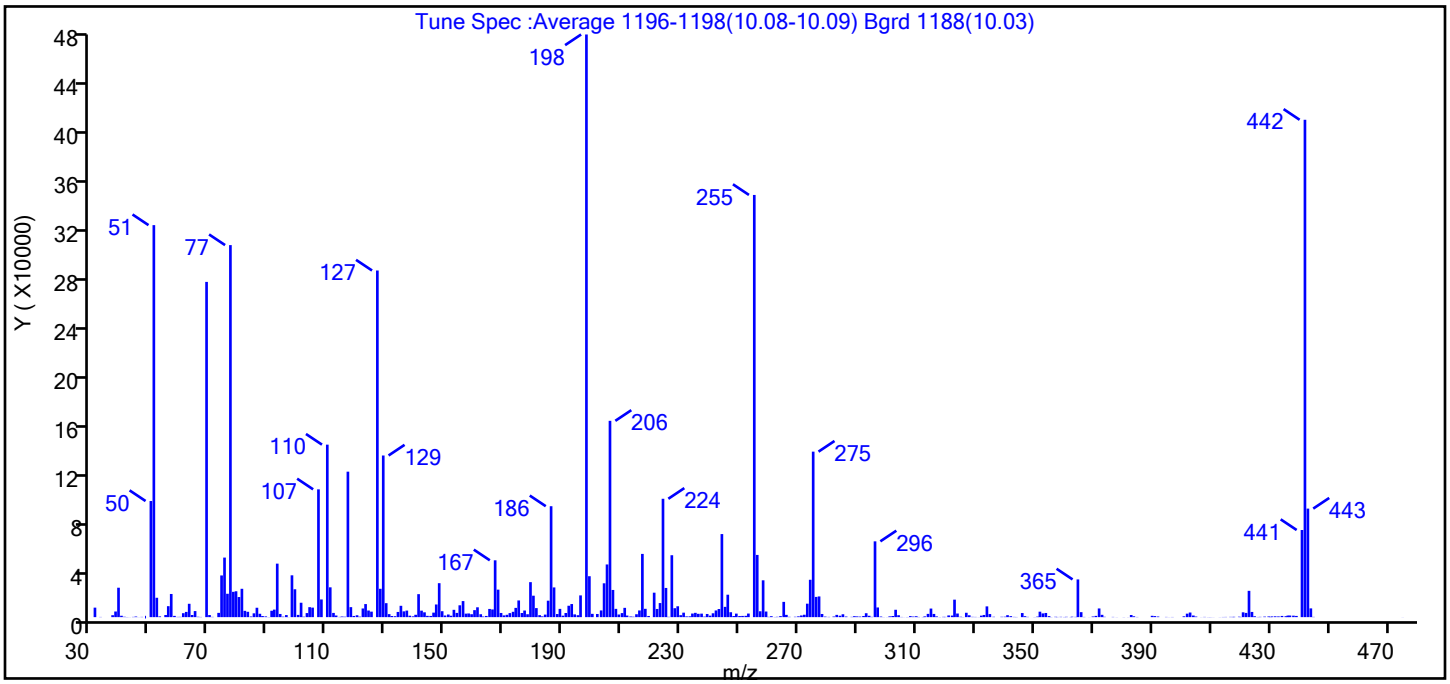
MB_DFTPP_WRK_00443 Amount Added: 1.00 Units: mL

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)

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
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		

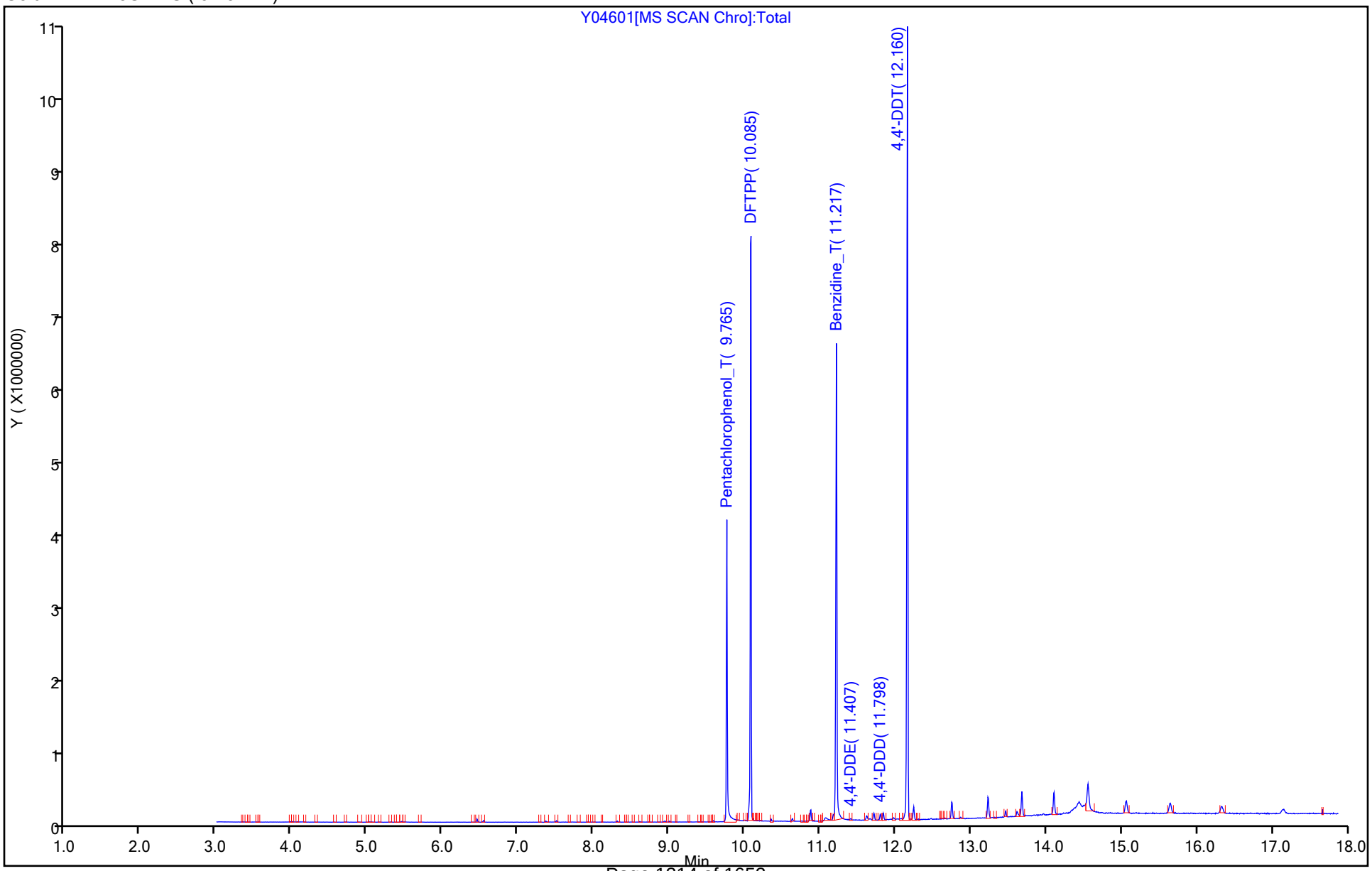
Report Date: 30-Oct-2024 16:06:31 Chrom Revision: 2.3 24-Sep-2024 15:19:46

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

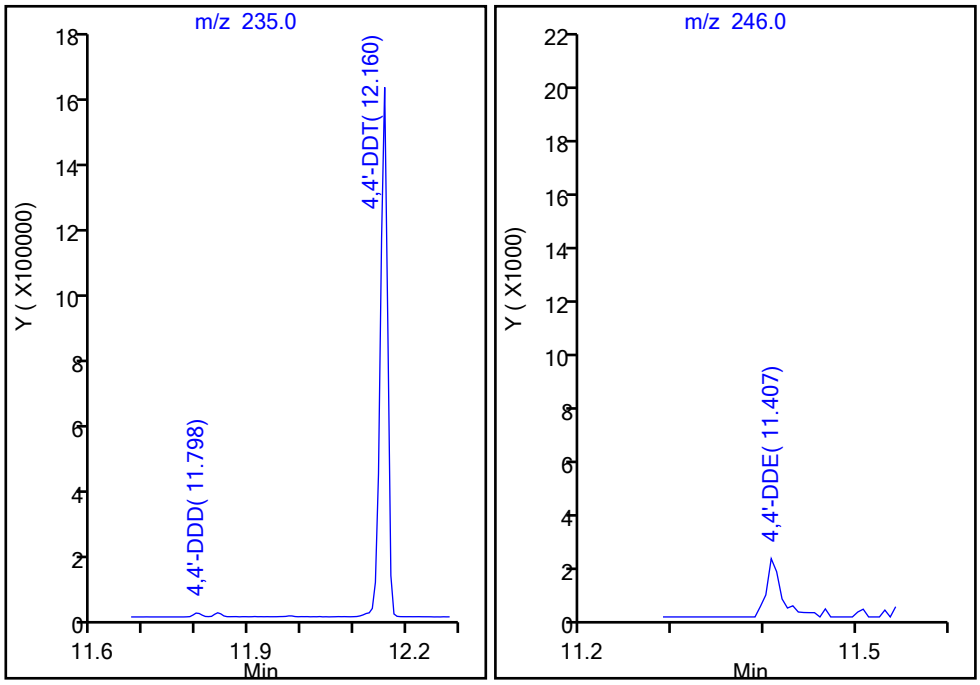
255 4,4'-DDT, Detector: MS SCAN

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

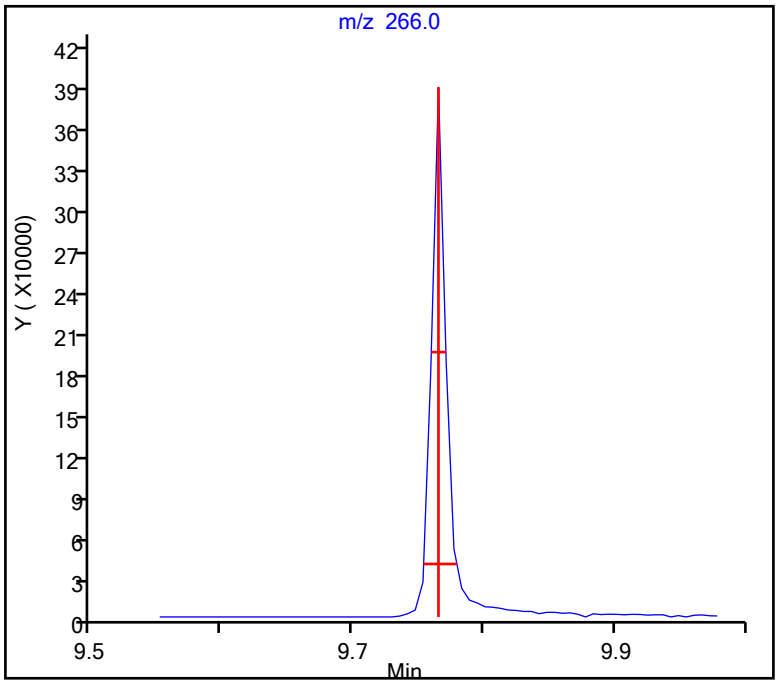
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

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

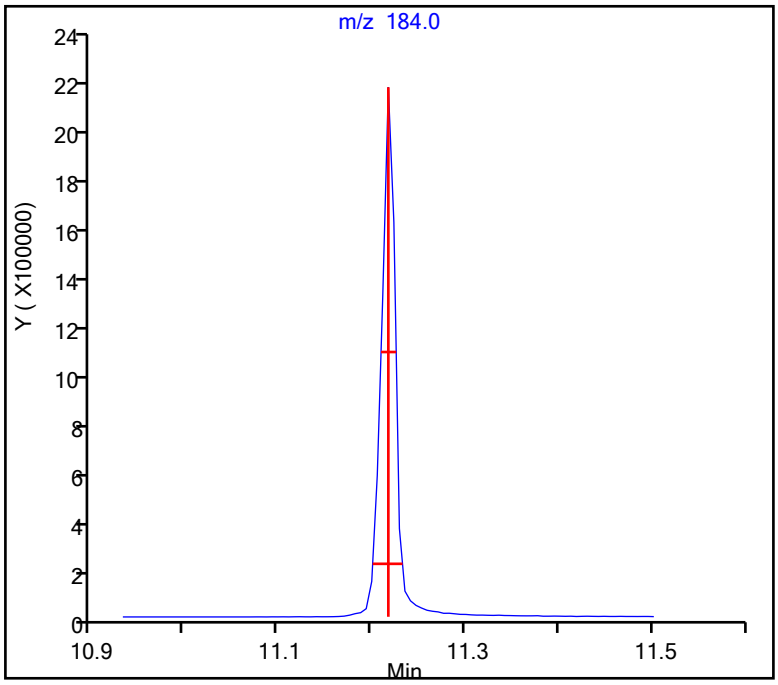
Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04601.D
Injection Date: 30-Oct-2024 09:51:30 Instrument ID: HP5973Y
Lims ID: DFTPP
Client ID:
Operator ID: JM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: Y-LVI-8270 Limit Group: MB - 8270D ICAL

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.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-730235/1-A

Matrix: Water | Lab File ID: Y04608.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/29/2024 09:26

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 13:02

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.: 730403 | Units: ug/L

Preparation Batch No.: 730235 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-83-2	2,4-Dichlorophenol	0.51	U	5.0	0.51
67-72-1	Hexachloroethane	0.59	U	5.0	0.59
91-20-3	Naphthalene	0.997	J	5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	70		25-144
321-60-8	2-Fluorobiphenyl	71		53-126
367-12-4	2-Fluorophenol (Surr)	58		24-120
4165-60-0	Nitrobenzene-d5 (Surr)	83		29-129
4165-62-2	Phenol-d5 (Surr)	43		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	93		33-132

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04608.D
Lims ID: MB 480-730235/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Oct-2024 13:02:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-009
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 16:03:07

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	95	149113	4.00	4.00	
* 2 Naphthalene-d8	136	7.087	7.086	0.001	99	565961	4.00	4.00	
* 3 Acenaphthene-d10	164	8.646	8.651	-0.005	94	322672	4.00	4.00	
* 4 Phenanthrene-d10	188	9.926	9.926	0.000	97	541349	4.00	4.00	
* 5 Chrysene-d12	240	12.771	12.777	-0.006	99	438085	4.00	4.00	
* 6 Perylene-d12	264	14.461	14.460	0.001	97	487694	4.00	4.00	
$ 7 2-Fluorophenol	112	4.662	4.638	0.024	92	212717	8.00	4.63	
$ 8 Phenol-d5	99	5.528	5.521	0.007	87	196516	8.00	3.46	
$ 9 Nitrobenzene-d5	82	6.411	6.410	0.001	97	361485	8.00	6.64	
$ 10 2-Fluorobiphenyl	172	8.035	8.035	0.000	98	632501	8.00	5.70	
$ 11 2,4,6-Tribromophenol	330	9.327	9.327	0.000	81	74801	8.00	5.59	
$ 12 p-Terphenyl-d14	244	11.485	11.485	0.000	97	881835	8.00	7.43	
237 Lidocaine	1		0.195					ND	
13 1,4-Dioxane	88		3.138					ND	
14 N-Nitrosodimethylamine	42		3.470					ND	
15 Pyridine	52		3.500					ND	
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		5.474					ND	
196 CBF-400	214		5.530					ND	
37 Phenol	94		5.533					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		5.569					ND	
39 Bis(2-chloroethyl)ether	93		5.604					ND	
38 Pentachloroethane	167		5.619					ND	
41 n-Decane	57		5.687					ND	U
40 2-Chlorophenol	128		5.699					ND	
43 1,3-Dichlorobenzene	146		5.835					ND	
32 2-Chlorotoluene	91		5.880					ND	
44 1,4-Dichlorobenzene	146		5.901					ND	
33 3-Chlorotoluene	91		5.903					ND	
257 CBF-500	161		5.944					ND	
34 4-Chlorotoluene	91		5.945					ND	
45 Benzyl alcohol	108		6.007					ND	
46 1,2-Dichlorobenzene	146		6.055					ND	
48 2-Methylphenol	108		6.108					ND	
49 2,2'-oxybis[1-chloropropane]	45		6.120					ND	
47 Indene	115	6.138	6.138	0.000	89	3468		-0.5684	
42 p-Fluoroaniline	111		6.208					ND	
50 N-Nitrosopyrrolidine	100		6.242					ND	
53 N-Nitrosodi-n-propylamine	70		6.244					ND	
57 4-Methylphenol	108		6.256					ND	
52 Acetophenone	105	6.263	6.262	0.001	90	2363		0.0373	
54 N-Nitrosomorpholine	56		6.265					ND	
56 2-Toluidine	106		6.301					ND	
55 4-Methylbenzenamine	106		6.304					ND	
58 Hexachloroethane	117		6.375					ND	
59 Nitrobenzene	77		6.434					ND	
61 N-Nitrosopiperidine	114		6.568					ND	
62 Isophorone	82		6.647					ND	
63 2-Chloroaniline	127		6.695					ND	
64 2-Nitrophenol	139		6.730					ND	
66 2,4-Dimethylphenol	107		6.748					ND	
68 o,o',o''-Triethylphosphorothioat	198		6.787					ND	
67 Tetraethyl lead	237		6.790					ND	
69 Bis(2-chloroethoxy)methane	93		6.819					ND	
70 Benzoic acid	105		6.885					ND	
51 N-Methylaniline	106		6.935					ND	
71 alpha,alpha-Dimethyl phenethylam	58		6.953					ND	
72 2,4-Dichlorophenol	162		6.962					ND	
73 1,2,4-Trichlorobenzene	180		7.033					ND	
75 Alpha-Terpineol	59		7.086					ND	
74 Naphthalene	128	7.111	7.110	0.000	96	37264		0.2492	
60 2,6-Dichloropyridine	112		7.121					ND	
76 4-Chloroaniline	127		7.145					ND	
77 2,6-Dichlorophenol	162		7.157					ND	
78 Hexachloropropene	213		7.184					ND	
79 Hexachlorobutadiene	225		7.205					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	
83 p-Phenylene diamine	108		7.463					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
84 Caprolactam	113	7.437	7.466	-0.029	71	6762		0.5110	
65 Benzeneacetonitrile	117		7.498					ND	
85 4-Chloro-3-methylphenol	107		7.578					ND	
86 Safrole, Total	162		7.629					ND	
286 4-Chlorophenol	128		7.691					ND	
87 2-Methylnaphthalene	142	7.727	7.726	0.001	82	3852		0.0418	
88 Phthalic anhydride	104		7.780					ND	
89 1-Methylnaphthalene	142	7.822	7.821	0.001	92	1084		0.0116	
90 Hexachlorocyclopentadiene	237		7.869					ND	
91 1,2,4,5-Tetrachlorobenzene	216		7.880					ND	
275 Isosafrole Peak 1	162		7.890					ND	
93 2,4,6-Trichlorophenol	196		7.981					ND	
284 2,3-Dichlorobenzenamine	161	8.023	7.981	0.042	16	127		NC	
94 2,4,5-Trichlorophenol	196		8.023					ND	
95 Isosafrole	162		8.091					ND	
277 Isosafrole Peak 2	162		8.091					ND	
258 CU-600	58		8.103					ND	
96 1,1'-Biphenyl	154		8.129					ND	
97 2-Chloronaphthalene	162		8.165					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		8.248					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		8.372					ND	
106 1,3-Dinitrobenzene	168		8.426					ND	
107 2,6-Dinitrotoluene	165		8.438					ND	
108 Acenaphthylene	152		8.533					ND	
109 3-Nitroaniline	138		8.598					ND	
110 Acenaphthene	153		8.681					ND	
111 2,4-Dinitrophenol	184		8.693					ND	
285 1,2,3,4 -Tetrachlorobenzene	216		8.733					ND	
112 4-Nitrophenol	109		8.752					ND	
113 Pentachlorobenzene	250		8.797					ND	
114 2,4-Dinitrotoluene	165		8.799					ND	
115 Dibenzofuran	168	8.824	8.823	0.001	97	2356		0.0182	
116 1-Naphthylamine	143		8.891					ND	
117 2,3,5,6-Tetrachlorophenol	232		8.897					ND	
118 2,3,4,6-Tetrachlorophenol	232		8.936					ND	
121 Hexadecane	57	8.954	8.953	0.001	76	1573		0.0245	
119 2-Naphthylamine	143		8.957					ND	
120 Diethyl phthalate	149		8.965					ND	
122 Thionazin	97		9.040					ND	
123 4-Chlorophenyl phenyl ether	204		9.090					ND	
125 N-Nitro-o-toluidine	152		9.117					ND	
124 Fluorene	166		9.119					ND	
128 Tributyl phosphate	99		9.120					ND	
126 4-Nitroaniline	138		9.131					ND	
127 4,6-Dinitro-2-methylphenol	198		9.155					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
129 Diphenylamine	169		9.190					ND	
130 N-Nitrosodiphenylamine	169		9.190					ND	
132 Azobenzene	77		9.232					ND	
131 1,2-Diphenylhydrazine	77		9.232					ND	
134 Sulfotepp	322		9.289					ND	
136 Diallate	86		9.419					ND	
278 Diallate Peak 1	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		9.511					ND	
141 Dimethoate	87		9.585					ND	
142 Simazine	201		9.600					ND	
140 Hexachlorobenzene	284		9.605					ND	
143 Atrazine	200		9.617					ND	
148 n-Octadecane	57		9.724					ND	
144 4-Aminobiphenyl	169		9.739					ND	
147 Pronamide	173		9.757					ND	
145 Pentachlorophenol	266		9.765					ND	
146 Pentachloronitrobenzene	237		9.775					ND	
149 Disulfoton	88		9.870					ND	
150 Dinoseb	211		9.881					ND	
151 Phenanthrene	178	9.944	9.943	0.001	93	4376		0.0292	
152 Anthracene	178		9.991					ND	
153 Carbazole	167		10.121					ND	
154 Alachlor	160		10.198					ND	
155 Methyl parathion	109		10.207					ND	
157 Di-n-butyl phthalate	149	10.353	10.358	-0.005	96	3962		0.0231	
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	10.821	10.846	-0.025	1	142		NC	
162 Isodrin	193		10.937					ND	
164 Fluoranthene	202		11.111					ND	
165 1-Hydroxyanthraquinone	224		11.153					ND	
166 Benzidine	184		11.212					ND	
167 Pyrene	202		11.372					ND	
276 Aramite Peak 1	185		11.411					ND	
279 Aramite Peak 2	185		11.494					ND	U
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		12.006					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		12.664					ND	
178 4,4'-Methylene bis(2-chloroani	231		12.685					ND	
179 3,3'-Dichlorobenzidine	252		12.700					ND	
180 Benzo[a]anthracene	228		12.765					ND	
182 Chrysene	228		12.806					ND	
183 6-Methylchrysene	242		13.337					ND	
184 Di-n-octyl phthalate	149		13.417					ND	
185 7,12-Dimethylbenz(a)anthracene	256		13.977					ND	
186 Benzo[b]fluoranthene	252		14.010					ND	
187 Benzo[k]fluoranthene	252		14.039					ND	
192 Hexachlorophene	196		14.340					ND	
189 Benzo[a]pyrene	252		14.395					ND	
190 3-Methylcholanthrene	268		14.807					ND	
283 Benzo[e]pyrene	252		15.332					ND	
191 Dibenz[a,h]acridine	279		15.560					ND	U
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	
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	
297 Fluorobenzene TIC	1		0.000					ND	
302 1-Bromo-2-chloroethane TIC	1		0.000					ND	
291 1,4-Dibromobenzene TIC	1		0.000					ND	
292 Ethylene Dibromide TIC	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	
296 1,2-dichloro-4-(trifluoromethyl)	1		0.000					ND	
294 3'-Bromoacetophenone TIC	1		0.000					ND	
298 2-Bromopyridine TIC	1		0.000					ND	
303 Carbofuran	1		0.000					ND	
299 1-Bromo-3-fluorobenzene TIC	1		0.000					ND	
205 Phenylmercaptan	110		0.195					ND	
222 2-Chlorobenzotrifluoride TIC	1		0.195					ND	
240 Prometryn (TIC)	1		0.195					ND	
238 Phenylacetic Acid	1		0.195					ND	
230 2,3-Dichlorophenol	1		0.195					ND	
233 4-Chlorobenzotrifluoride TIC	1		0.195					ND	
215 trans Azobenzene (TIC)	1		0.195					ND	
247 Benefin (TIC)	1		0.195					ND	
244 Pendimethalin	1		0.195					ND	
210 Dibenzo[a,h]pyrene	1		0.195					ND	
218 3-Chlorobenzotrifluoride TIC	1		0.195					ND	
227 Dibenz[a,j]acridine	279		0.195					ND	
201 7H-Dibenzo[c,g]carbazole	1		0.195					ND	
219 Photomirex TIC	1		0.195					ND	
225 Dibenz(a,i)pyrene	1		0.195					ND	
220 Tetramethyl lead TIC	1		0.195					ND	
204 2,6-Dichlorotoluene TIC	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
206 2,4-Toluene diamine	1		0.195					ND	
224 1-Bromopropane	1		0.195					ND	
212 Hexamethyldisiloxane TIC	1		0.195					ND	
211 Pendimethalin (TIC)	1		0.195					ND	
254 4,4'-DDD	235		11.798					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

Reagents:

MB_LLIS_WRK_00284 Amount Added: 20.00 Units: uL Run Reagent

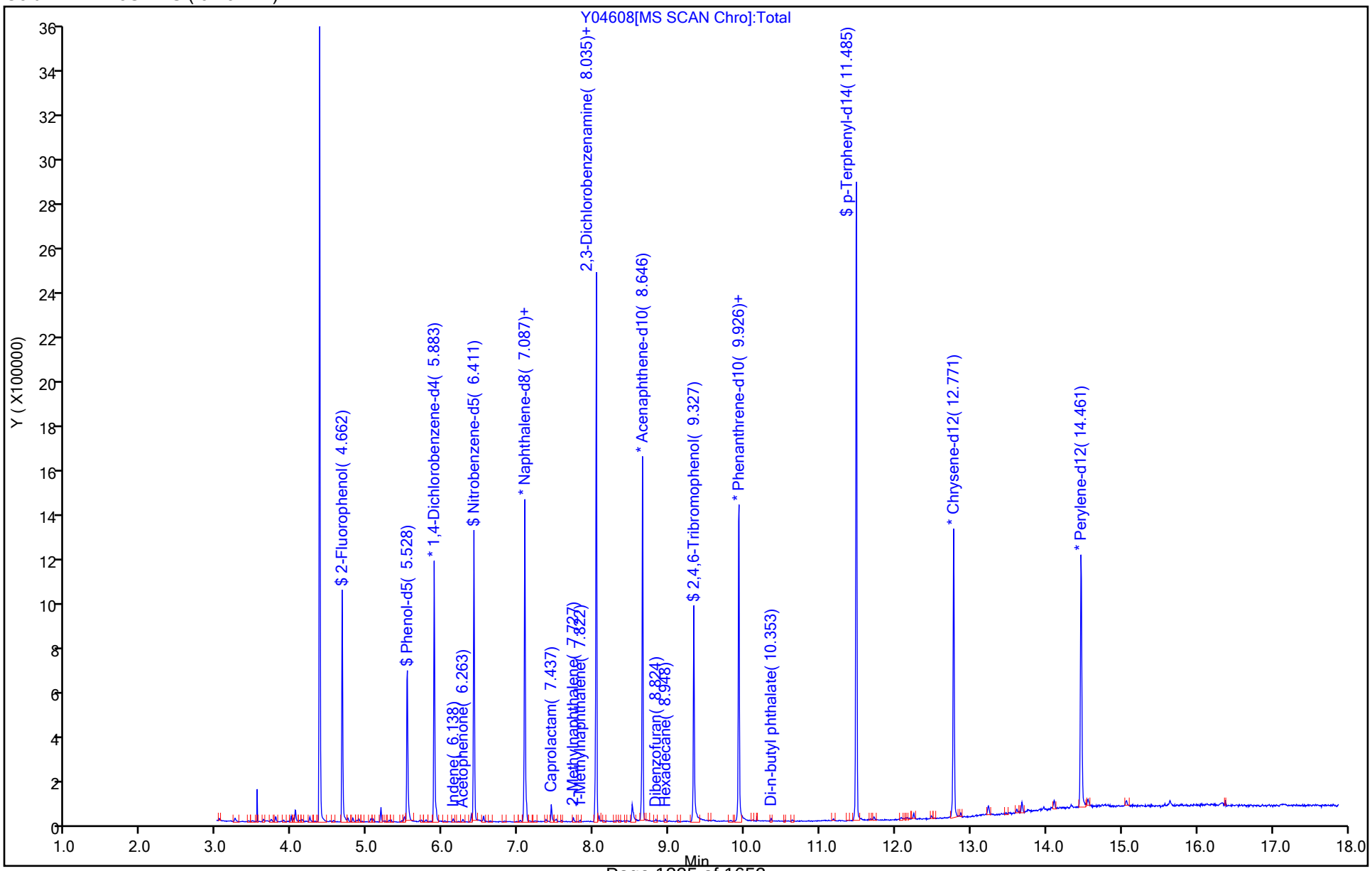
Report Date: 30-Oct-2024 16:06:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04608.D

Injection Date:	30-Oct-2024 13:02:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	MB 480-730235/1-A			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
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04608.D
Lims ID: MB 480-730235/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Oct-2024 13:02:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-009
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 16:03:07

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.63	57.87
$ 8 Phenol-d5	8.00	3.46	43.28
$ 9 Nitrobenzene-d5	8.00	6.64	83.04
$ 10 2-Fluorobiphenyl	8.00	5.70	71.29
$ 11 2,4,6-Tribromophenol	8.00	5.59	69.93
$ 12 p-Terphenyl-d14	8.00	7.43	92.82

Report Date: 30-Oct-2024 16:06:51 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04608.D

Injection Date: 30-Oct-2024 13:02:30 Instrument ID: HP5973Y

Lims ID: MB 480-730235/1-A

Client ID:

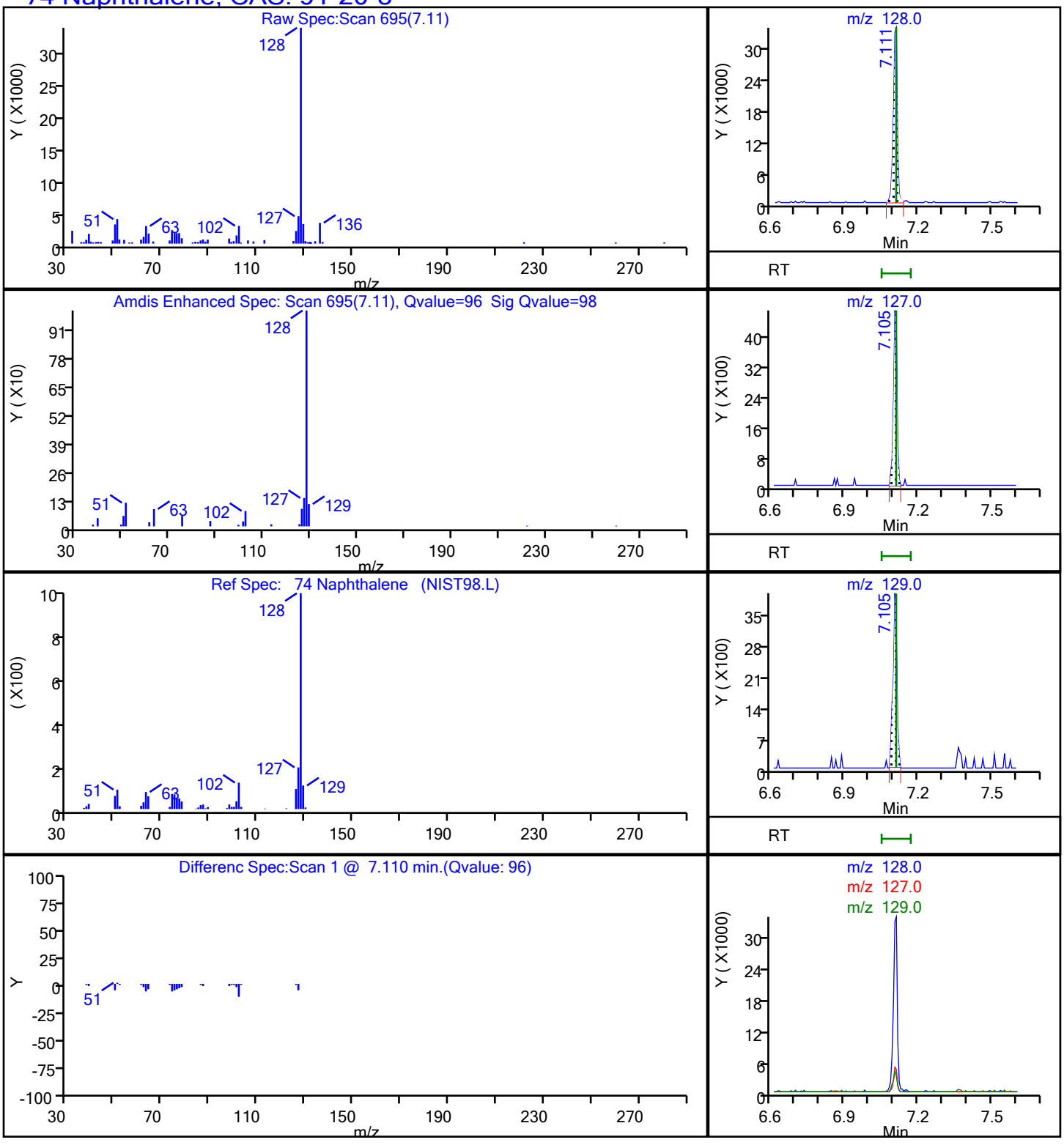
Operator ID: JM ALS Bottle#: 9 Worklist Smp#: 9

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

74 Naphthalene, CAS: 91-20-3



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-730235/2-A

Matrix: Water | Lab File ID: Y04609.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/29/2024 09:26

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 13:29

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.: 730403 | Units: ug/L

Preparation Batch No.: 730235 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-83-2	2,4-Dichlorophenol	26.1		5.0	0.51
67-72-1	Hexachloroethane	23.5		5.0	0.59
91-20-3	Naphthalene	23.6		5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	82		25-144
321-60-8	2-Fluorobiphenyl	81		53-126
367-12-4	2-Fluorophenol (Surr)	62		24-120
4165-60-0	Nitrobenzene-d5 (Surr)	89		29-129
4165-62-2	Phenol-d5 (Surr)	51		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	82		33-132

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04609.D
Lims ID: LCS 480-730235/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Oct-2024 13:29:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-010
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 16:03:43

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	5.888	5.883	0.005	94	153796	4.00	4.00	
* 2 Naphthalene-d8	136	7.085	7.086	-0.001	99	567784	4.00	4.00	
* 3 Acenaphthene-d10	164	8.650	8.651	-0.001	94	324356	4.00	4.00	
* 4 Phenanthrene-d10	188	9.925	9.926	-0.001	97	551534	4.00	4.00	
* 5 Chrysene-d12	240	12.776	12.777	-0.001	99	464163	4.00	4.00	
* 6 Perylene-d12	264	14.465	14.460	0.005	97	523633	4.00	4.00	
$ 7 2-Fluorophenol	112	4.673	4.638	0.035	92	235975	8.00	4.98	
$ 8 Phenol-d5	99	5.526	5.521	0.005	88	238187	8.00	4.07	
$ 9 Nitrobenzene-d5	82	6.416	6.410	0.006	96	387183	8.00	7.09	
$ 10 2-Fluorobiphenyl	172	8.034	8.035	-0.001	98	720047	8.00	6.46	
$ 11 2,4,6-Tribromophenol	330	9.332	9.327	0.005	84	89566	8.00	6.54	
$ 12 p-Terphenyl-d14	244	11.484	11.485	-0.001	97	821193	8.00	6.53	
13 1,4-Dioxane	88	3.250	3.138	0.112	91	76210	8.00	4.01	a
14 N-Nitrosodimethylamine	42	3.541	3.470	0.071	76	209862	8.00	8.68	a
15 Pyridine	52	3.576	3.500	0.076	78	252045	16.0	9.36	a
35 Benzaldehyde	77	5.473	5.474	-0.001	86	545387	16.0	15.0	
37 Phenol	94	5.544	5.533	0.011	90	246875	8.00	4.15	
36 Aniline	93	5.574	5.569	0.005	93	318058	8.00	4.38	
39 Bis(2-chloroethyl)ether	93	5.603	5.604	-0.001	85	359058	8.00	7.38	
41 n-Decane	57	5.686	5.687	-0.001	94	259917	8.00	4.54	
40 2-Chlorophenol	128	5.698	5.699	-0.001	94	321581	8.00	6.49	
43 1,3-Dichlorobenzene	146	5.835	5.835	0.000	94	312248	8.00	5.32	
44 1,4-Dichlorobenzene	146	5.906	5.901	0.005	90	320633	8.00	5.33	
45 Benzyl alcohol	108	6.012	6.007	0.005	86	206472	8.00	6.44	
46 1,2-Dichlorobenzene	146	6.054	6.055	-0.001	92	310398	8.00	5.50	
48 2-Methylphenol	108	6.113	6.108	0.005	93	293600	8.00	6.50	
49 2,2'-oxybis[1-chloropropane]	45	6.119	6.120	-0.001	87	643978	8.00	8.57	
47 Indene	115	6.143	6.138	0.005	89	4557579	64.0	53.0	
53 N-Nitrosodi-n-propylamine	70	6.250	6.244	0.006	94	258898	8.00	7.63	
57 4-Methylphenol	108	6.255	6.256	-0.001	94	300744	8.00	6.41	
52 Acetophenone	105	6.261	6.262	-0.001	85	489312	8.00	7.48	
58 Hexachloroethane	117	6.374	6.375	-0.001	89	134646	8.00	5.88	

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	6.434	-0.001	95	397596	8.00	7.53	
62 Isophorone	82	6.647	6.647	0.000	95	704293	8.00	7.52	
64 2-Nitrophenol	139	6.730	6.730	0.000	89	181910	8.00	6.81	
66 2,4-Dimethylphenol	107	6.747	6.748	-0.001	96	364084	8.00	7.36	
69 Bis(2-chloroethoxy)methane	93	6.819	6.819	0.000	92	385712	8.00	6.74	
70 Benzoic acid	105	6.902	6.885	0.017	93	797196	64.0	35.4	
72 2,4-Dichlorophenol	162	6.961	6.962	-0.001	95	279948	8.00	6.52	
73 1,2,4-Trichlorobenzene	180	7.032	7.033	-0.001	92	256162	8.00	5.32	
74 Naphthalene	128	7.109	7.110	-0.001	98	886816	8.00	5.91	
76 4-Chloroaniline	127	7.145	7.145	0.000	94	279961	8.00	4.88	
77 2,6-Dichlorophenol	162	7.162	7.157	0.005	93	285859	8.00	6.79	
79 Hexachlorobutadiene	225	7.204	7.205	-0.001	93	137514	8.00	4.93	
84 Caprolactam	113	7.471	7.466	0.005	68	81140	16.0	5.28	
85 4-Chloro-3-methylphenol	107	7.583	7.578	0.005	93	299475	8.00	7.33	
87 2-Methylnaphthalene	142	7.726	7.726	0.000	89	539251	8.00	5.83	
89 1-Methylnaphthalene	142	7.820	7.821	-0.001	90	565063	8.00	6.01	
90 Hexachlorocyclopentadiene	237	7.868	7.869	-0.001	96	36808	8.00	2.09	
91 1,2,4,5-Tetrachlorobenzene	216	7.880	7.880	0.000	96	245973	8.00	5.12	
93 2,4,6-Trichlorophenol	196	7.980	7.981	-0.001	95	203549	8.00	6.86	
94 2,4,5-Trichlorophenol	196	8.022	8.023	-0.001	93	225171	8.00	7.17	
96 1,1'-Biphenyl	154	8.129	8.129	0.000	98	749146	8.00	6.30	
97 2-Chloronaphthalene	162	8.164	8.165	-0.001	97	596270	8.00	6.27	
100 2-Nitroaniline	65	8.247	8.248	-0.001	77	240435	8.00	8.99	
105 Dimethyl phthalate	163	8.372	8.372	0.000	96	791847	8.00	7.69	
106 1,3-Dinitrobenzene	168	8.431	8.426	0.005	80	110893	8.00	6.82	
107 2,6-Dinitrotoluene	165	8.443	8.438	0.005	92	176293	8.00	7.35	
108 Acenaphthylene	152	8.532	8.533	0.000	98	1012578	8.00	7.05	
109 3-Nitroaniline	138	8.603	8.598	0.005	87	141814	8.00	5.79	
110 Acenaphthene	153	8.680	8.681	-0.001	96	647624	8.00	6.73	
111 2,4-Dinitrophenol	184	8.698	8.693	0.005	74	151093	16.0	14.9	
112 4-Nitrophenol	109	8.751	8.752	-0.001	94	198293	16.0	19.0	
114 2,4-Dinitrotoluene	165	8.798	8.799	-0.001	86	230011	8.00	7.45	
115 Dibenzofuran	168	8.822	8.823	-0.001	96	846519	8.00	6.51	
118 2,3,4,6-Tetrachlorophenol	232	8.935	8.936	-0.001	79	154976	8.00	7.01	
121 Hexadecane	57	8.953	8.953	0.000	88	447750	8.00	6.93	
120 Diethyl phthalate	149	8.964	8.965	-0.001	96	859354	8.00	8.44	
123 4-Chlorophenyl phenyl ether	204	9.089	9.090	-0.001	96	324482	8.00	6.31	
124 Fluorene	166	9.119	9.119	0.000	95	760141	8.00	6.93	
126 4-Nitroaniline	138	9.130	9.131	-0.001	76	159342	8.00	6.12	
127 4,6-Dinitro-2-methylphenol	198	9.160	9.155	0.005	77	247742	16.0	15.4	
129 Diphenylamine	169	9.196	9.190	0.006	90	532925	6.84	5.97	
130 N-Nitrosodiphenylamine	169	9.196	9.190	0.006	68	532925	8.00	6.98	
132 Azobenzene	77	9.231	9.232	-0.001	95	964339	8.00	9.49	
131 1,2-Diphenylhydrazine	77	9.231	9.232	-0.001	41	964339	8.00	9.49	
139 4-Bromophenyl phenyl ether	248	9.510	9.511	-0.001	81	191914	8.00	6.16	
140 Hexachlorobenzene	284	9.605	9.605	0.000	90	205762	8.00	6.14	
143 Atrazine	200	9.622	9.617	0.005	86	447539	16.0	16.9	E
148 n-Octadecane	57	9.729	9.724	0.005	84	504867	8.00	7.50	
145 Pentachlorophenol	266	9.765	9.765	0.000	86	189986	16.0	12.5	
151 Phenanthrene	178	9.948	9.943	0.005	99	1110647	8.00	7.28	
152 Anthracene	178	9.990	9.991	-0.001	99	1117221	8.00	7.32	
153 Carbazole	167	10.120	10.121	-0.001	97	975787	8.00	7.20	

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	10.358	-0.001	99	1469255	8.00	8.43	
164 Fluoranthene	202	11.110	11.111	-0.001	98	1227732	8.00	7.58	
166 Benzidine	184	11.211	11.212	-0.001	99	119750	8.00	1.41	
167 Pyrene	202	11.371	11.372	-0.001	97	1193430	8.00	7.68	
174 Butyl benzyl phthalate	149	12.005	12.006	-0.001	96	657863	8.00	8.91	
181 Bis(2-ethylhexyl) phthalate	149	12.663	12.664	-0.001	95	901964	8.00	8.56	
179 3,3'-Dichlorobenzidine	252	12.699	12.700	-0.001	76	412639	8.00	5.57	
180 Benzo[a]anthracene	228	12.764	12.765	-0.001	99	1182041	8.00	7.44	
182 Chrysene	228	12.812	12.806	0.006	97	1078724	8.00	7.43	
184 Di-n-octyl phthalate	149	13.422	13.417	0.005	99	1542229	8.00	8.66	
186 Benzo[b]fluoranthene	252	14.009	14.010	-0.001	97	1207271	8.00	7.22	
187 Benzo[k]fluoranthene	252	14.039	14.039	0.000	99	1144299	8.00	6.82	
189 Benzo[a]pyrene	252	14.400	14.395	0.005	78	1021900	8.00	6.85	
194 Dibenz(a,h)anthracene	278	15.941	15.936	0.005	91	1034711	8.00	6.99	
193 Indeno[1,2,3-cd]pyrene	276	15.953	15.948	0.005	95	1295003	8.00	7.07	
195 Benzo[g,h,i]perylene	276	16.398	16.393	0.005	96	991816	8.00	6.90	
S 263 3-Methylphenol	1				0		8.00	6.41	

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

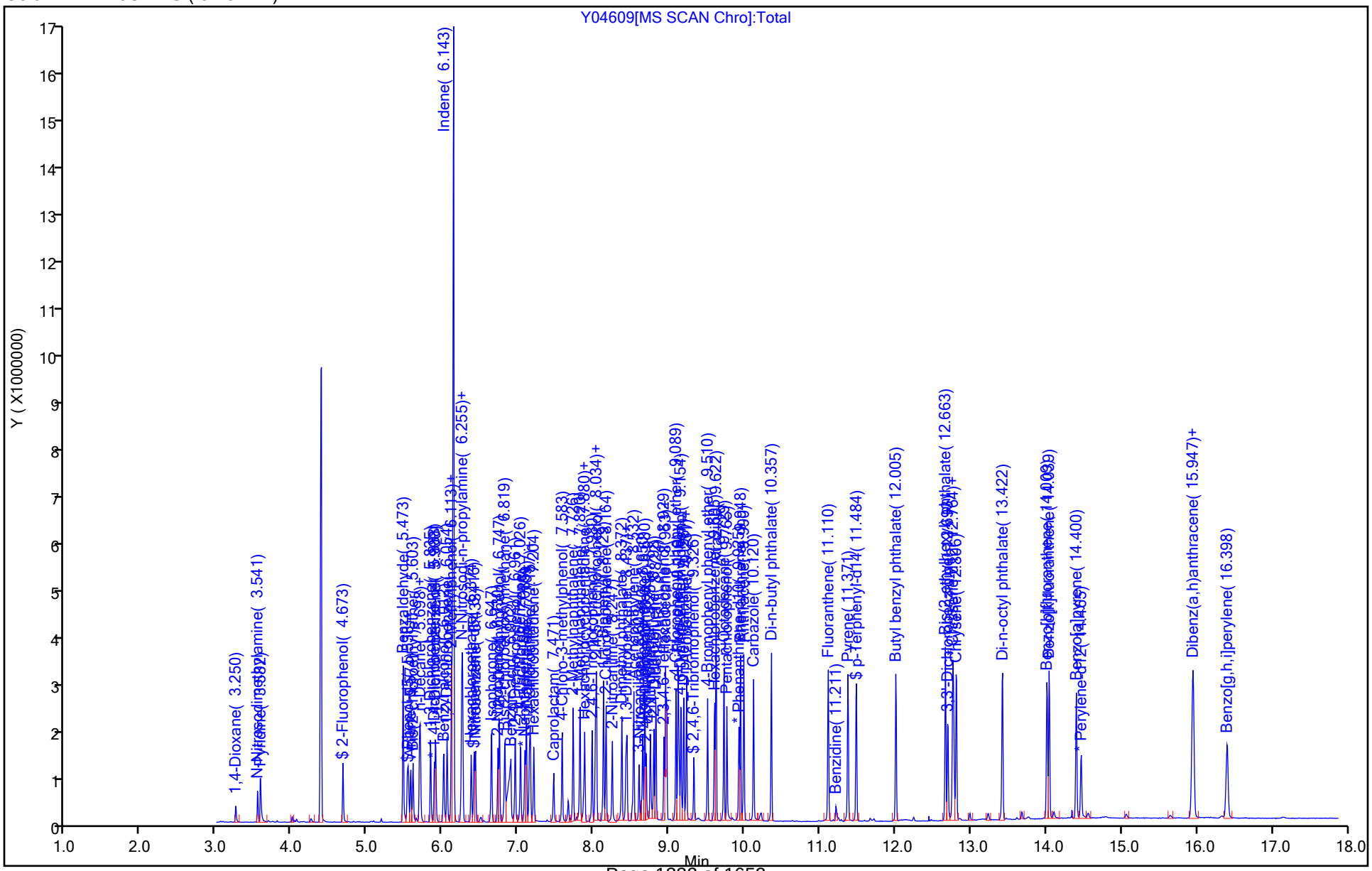
Report Date: 30-Oct-2024 16:06:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04609.D

Injection Date:	30-Oct-2024 13:29:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	LCS 480-730235/2-A			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)



Report Date: 30-Oct-2024 16:06:55 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04609.D
Lims ID: LCS 480-730235/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Oct-2024 13:29:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-010
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 16:03:43

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	4.98	62.25
$ 8 Phenol-d5	8.00	4.07	50.86
$ 9 Nitrobenzene-d5	8.00	7.09	88.62
$ 10 2-Fluorobiphenyl	8.00	6.46	80.73
$ 11 2,4,6-Tribromophenol	8.00	6.54	81.80
$ 12 p-Terphenyl-d14	8.00	6.53	81.58

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-730235/3-A

Matrix: Water | Lab File ID: Y04610.D

Analysis Method: 8270D | Date Collected:

Extract. Method: 3510C | Date Extracted: 10/29/2024 09:26

Sample wt/vol: 250(mL) | Date Analyzed: 10/30/2024 13:57

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.: 730403 | Units: ug/L

Preparation Batch No.: 730235 | Instrument ID: HP5973Y

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-83-2	2,4-Dichlorophenol	27.9		5.0	0.51
67-72-1	Hexachloroethane	27.5		5.0	0.59
91-20-3	Naphthalene	29.8		5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	90		25-144
321-60-8	2-Fluorobiphenyl	87		53-126
367-12-4	2-Fluorophenol (Surr)	71		24-120
4165-60-0	Nitrobenzene-d5 (Surr)	97		29-129
4165-62-2	Phenol-d5 (Surr)	56		10-120
1718-51-0	p-Terphenyl-d14 (Surr)	88		33-132

Eurofins Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04610.D
Lims ID: LCSD 480-730235/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 30-Oct-2024 13:57:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-011
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 16:04:21

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	5.885	5.883	0.002	95	143072	4.00	4.00	
* 2 Naphthalene-d8	136	7.089	7.086	0.003	99	542422	4.00	4.00	
* 3 Acenaphthene-d10	164	8.648	8.651	-0.003	94	317659	4.00	4.00	
* 4 Phenanthrene-d10	188	9.928	9.926	0.002	97	505686	4.00	4.00	
* 5 Chrysene-d12	240	12.779	12.777	0.002	99	446242	4.00	4.00	
* 6 Perylene-d12	264	14.463	14.460	0.003	97	509825	4.00	4.00	
$ 7 2-Fluorophenol	112	4.676	4.638	0.038	92	250210	8.00	5.68	
$ 8 Phenol-d5	99	5.530	5.521	0.009	89	242783	8.00	4.46	
$ 9 Nitrobenzene-d5	82	6.413	6.410	0.003	97	403871	8.00	7.74	
$ 10 2-Fluorobiphenyl	172	8.037	8.035	0.002	99	757583	8.00	6.94	
$ 11 2,4,6-Tribromophenol	330	9.329	9.327	0.002	83	90837	8.00	7.22	
$ 12 p-Terphenyl-d14	244	11.481	11.485	-0.004	97	855478	8.00	7.07	
13 1,4-Dioxane	88	3.265	3.138	0.127	91	80642	8.00	4.56	a
14 N-Nitrosodimethylamine	42	3.550	3.470	0.080	76	217971	8.00	9.69	a
15 Pyridine	52	3.585	3.500	0.085	78	304163	16.0	12.1	a
35 Benzaldehyde	77	5.470	5.474	-0.004	87	576409	16.0	17.1	E
37 Phenol	94	5.542	5.533	0.009	92	266191	8.00	4.81	
36 Aniline	93	5.571	5.569	0.002	95	336075	8.00	4.98	
39 Bis(2-chloroethyl)ether	93	5.601	5.604	-0.003	86	366768	8.00	8.11	
41 n-Decane	57	5.690	5.687	0.003	93	279510	8.00	5.25	
40 2-Chlorophenol	128	5.702	5.699	0.003	94	332974	8.00	7.23	
43 1,3-Dichlorobenzene	146	5.838	5.835	0.003	93	332636	8.00	6.09	
44 1,4-Dichlorobenzene	146	5.903	5.901	0.002	89	339101	8.00	6.06	
45 Benzyl alcohol	108	6.010	6.007	0.003	85	205277	8.00	6.88	
46 1,2-Dichlorobenzene	146	6.057	6.055	0.002	93	326999	8.00	6.23	
48 2-Methylphenol	108	6.117	6.108	0.009	93	299830	8.00	7.14	
49 2,2'-oxybis[1-chloropropane]	45	6.117	6.120	-0.003	87	677466	8.00	9.70	
47 Indene	115	6.140	6.138	0.002	90	4732046	64.0	59.2	
53 N-Nitrosodi-n-propylamine	70	6.247	6.244	0.003	94	257660	8.00	8.16	
57 4-Methylphenol	108	6.253	6.256	-0.003	93	307799	8.00	7.05	
52 Acetophenone	105	6.259	6.262	-0.003	80	495677	8.00	8.15	
58 Hexachloroethane	117	6.371	6.375	-0.004	91	146205	8.00	6.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
59 Nitrobenzene	77	6.431	6.434	-0.003	95	410510	8.00	8.14	
62 Isophorone	82	6.644	6.647	-0.003	95	707643	8.00	7.91	
64 2-Nitrophenol	139	6.727	6.730	-0.003	89	186753	8.00	7.30	
66 2,4-Dimethylphenol	107	6.751	6.748	0.003	96	383294	8.00	8.11	
69 Bis(2-chloroethoxy)methane	93	6.822	6.819	0.003	92	395542	8.00	7.24	
70 Benzoic acid	105	6.905	6.885	0.020	91	947592	64.0	42.4	
72 2,4-Dichlorophenol	162	6.958	6.962	-0.004	94	286910	8.00	6.99	
73 1,2,4-Trichlorobenzene	180	7.029	7.033	-0.004	92	268985	8.00	5.85	
74 Naphthalene	128	7.106	7.110	-0.004	98	1066322	8.00	7.44	
76 4-Chloroaniline	127	7.148	7.145	0.003	95	254942	8.00	4.65	
77 2,6-Dichlorophenol	162	7.160	7.157	0.003	90	295046	8.00	7.34	
79 Hexachlorobutadiene	225	7.207	7.205	0.002	93	147410	8.00	5.53	
84 Caprolactam	113	7.468	7.466	0.002	69	84724	16.0	5.76	
85 4-Chloro-3-methylphenol	107	7.581	7.578	0.003	92	300772	8.00	7.71	
87 2-Methylnaphthalene	142	7.729	7.726	0.003	90	559295	8.00	6.33	
89 1-Methylnaphthalene	142	7.818	7.821	-0.003	90	586919	8.00	6.53	
90 Hexachlorocyclopentadiene	237	7.865	7.869	-0.004	93	45085	8.00	2.53	
91 1,2,4,5-Tetrachlorobenzene	216	7.883	7.880	0.003	98	265971	8.00	5.66	
93 2,4,6-Trichlorophenol	196	7.978	7.981	-0.003	95	207688	8.00	7.15	
94 2,4,5-Trichlorophenol	196	8.025	8.023	0.002	93	227660	8.00	7.40	
96 1,1'-Biphenyl	154	8.132	8.129	0.003	97	769694	8.00	6.60	
97 2-Chloronaphthalene	162	8.162	8.165	-0.003	98	585836	8.00	6.29	
100 2-Nitroaniline	65	8.245	8.248	-0.003	76	247548	8.00	9.44	
105 Dimethyl phthalate	163	8.375	8.372	0.003	96	792913	8.00	7.86	
106 1,3-Dinitrobenzene	168	8.428	8.426	0.002	81	111577	8.00	7.18	
107 2,6-Dinitrotoluene	165	8.440	8.438	0.002	84	171012	8.00	7.28	
108 Acenaphthylene	152	8.529	8.533	-0.003	98	1050468	8.00	7.47	
109 3-Nitroaniline	138	8.600	8.598	0.002	88	143831	8.00	5.99	
110 Acenaphthene	153	8.677	8.681	-0.004	96	656296	8.00	6.97	
111 2,4-Dinitrophenol	184	8.695	8.693	0.002	71	168717	16.0	16.8	
112 4-Nitrophenol	109	8.748	8.752	-0.004	96	194790	16.0	19.1	
114 2,4-Dinitrotoluene	165	8.796	8.799	-0.003	84	230327	8.00	7.61	
115 Dibenzofuran	168	8.826	8.823	0.003	94	872559	8.00	6.85	
118 2,3,4,6-Tetrachlorophenol	232	8.932	8.936	-0.004	81	157932	8.00	7.28	
121 Hexadecane	57	8.950	8.953	-0.003	87	449490	8.00	7.10	
120 Diethyl phthalate	149	8.968	8.965	0.003	96	835645	8.00	8.38	
123 4-Chlorophenyl phenyl ether	204	9.092	9.090	0.002	95	328795	8.00	6.53	
124 Fluorene	166	9.122	9.119	0.003	92	735673	8.00	6.85	
126 4-Nitroaniline	138	9.134	9.131	0.003	74	171930	8.00	6.74	
127 4,6-Dinitro-2-methylphenol	198	9.157	9.155	0.002	72	251974	16.0	17.0	
129 Diphenylamine	169	9.193	9.190	0.003	91	548855	6.84	6.71	
130 N-Nitrosodiphenylamine	169	9.193	9.190	0.003	67	548855	8.00	7.85	
132 Azobenzene	77	9.229	9.232	-0.003	95	957770	8.00	10.3	
131 1,2-Diphenylhydrazine	77	9.229	9.232	-0.003	41	957513	8.00	10.3	
139 4-Bromophenyl phenyl ether	248	9.513	9.511	0.002	81	189702	8.00	6.65	
140 Hexachlorobenzene	284	9.602	9.605	-0.003	89	207012	8.00	6.73	
143 Atrazine	200	9.626	9.617	0.009	88	465352	16.0	18.0	E
148 n-Octadecane	57	9.727	9.724	0.003	84	547120	8.00	8.86	
145 Pentachlorophenol	266	9.768	9.765	0.003	86	190618	16.0	13.6	
151 Phenanthrene	178	9.946	9.943	0.003	99	1135803	8.00	8.12	
152 Anthracene	178	9.993	9.991	0.002	98	1138427	8.00	8.14	
153 Carbazole	167	10.124	10.121	0.003	97	965258	8.00	7.77	

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	10.355	10.358	-0.003	99	1464644	8.00	9.16	
164 Fluoranthene	202	11.114	11.111	0.003	98	1215040	8.00	8.19	
166 Benzidine	184	11.214	11.212	0.002	99	151579	8.00	1.80	
167 Pyrene	202	11.369	11.372	-0.003	97	1225171	8.00	8.20	
174 Butyl benzyl phthalate	149	12.009	12.006	0.003	96	660752	8.00	9.30	
181 Bis(2-ethylhexyl) phthalate	149	12.667	12.664	0.003	95	931967	8.00	9.19	
179 3,3'-Dichlorobenzidine	252	12.696	12.700	-0.004	75	405577	8.00	5.70	
180 Benzo[a]anthracene	228	12.762	12.765	-0.003	99	1180972	8.00	7.73	
182 Chrysene	228	12.809	12.806	0.003	96	1061106	8.00	7.60	
184 Di-n-octyl phthalate	149	13.420	13.417	0.003	98	1580553	8.00	9.23	
186 Benzo[b]fluoranthene	252	14.012	14.010	0.002	97	1276018	8.00	7.83	
187 Benzo[k]fluoranthene	252	14.042	14.039	0.003	99	1300984	8.00	7.96	
189 Benzo[a]pyrene	252	14.404	14.395	0.009	78	1039188	8.00	7.15	
194 Dibenz(a,h)anthracene	278	15.939	15.936	0.003	92	1033913	8.00	7.18	
193 Indeno[1,2,3-cd]pyrene	276	15.951	15.948	0.003	97	1312093	8.00	7.36	
195 Benzo[g,h,i]perylene	276	16.401	16.393	0.008	96	1004310	8.00	7.17	
S 263 3-Methylphenol	1				0		8.00	7.05	

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

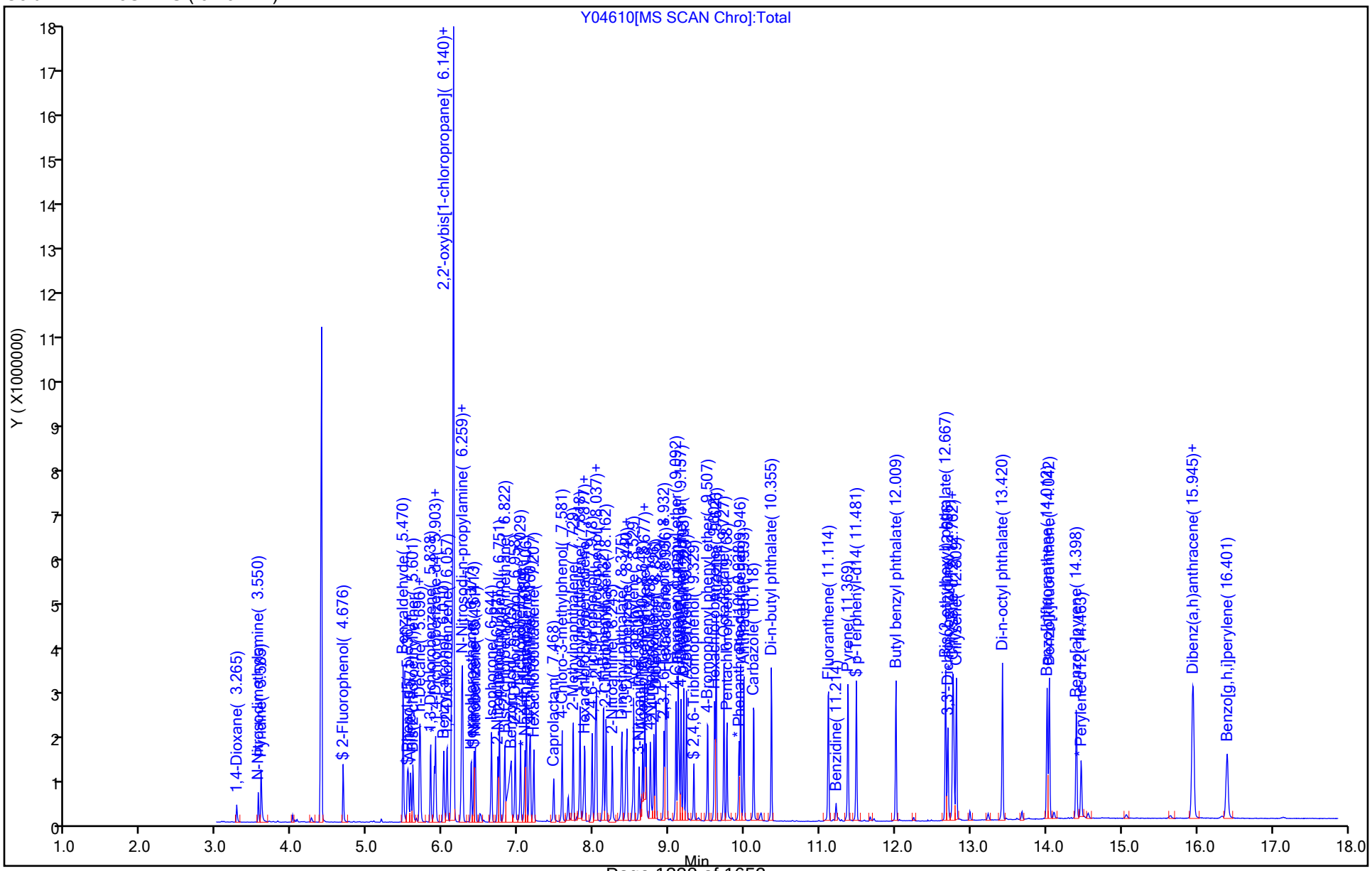
Report Date: 30-Oct-2024 16:07:02 Chrom Revision: 2.3 24-Sep-2024 15:19:46

Eurofins Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04610.D

Injection Date:	30-Oct-2024 13:57:30	Instrument ID:	HP5973Y	Operator ID:	JM
Lims ID:	LCSD 480-730235/3-A			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)



Eurofins Buffalo
Recovery Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Y\20241030-120914.b\Y04610.D
Lims ID: LCSD 480-730235/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 30-Oct-2024 13:57:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 480-0120914-011
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 16:04:21

Compound	Amount Added	Amount Recovered	% Rec.
$ 7 2-Fluorophenol	8.00	5.68	70.95
$ 8 Phenol-d5	8.00	4.46	55.72
$ 9 Nitrobenzene-d5	8.00	7.74	96.71
$ 10 2-Fluorobiphenyl	8.00	6.94	86.73
$ 11 2,4,6-Tribromophenol	8.00	7.22	90.25
$ 12 p-Terphenyl-d14	8.00	7.07	88.40

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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.: 480-224872-1

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)
ZZZZZ (Client)		10/30/2024 11:12	100		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 11:40	500		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 12:07	5		RXI-5Sil MS 0.25(mm)
ZZZZZ (Client)		10/30/2024 12:34	300		RXI-5Sil MS 0.25(mm)
MB 480-730235/1-A		10/30/2024 13:02	1	Y04608.D	RXI-5Sil MS 0.25(mm)
LCS 480-730235/2-A		10/30/2024 13:29	1	Y04609.D	RXI-5Sil MS 0.25(mm)
LCSD 480-730235/3-A		10/30/2024 13:57	1	Y04610.D	RXI-5Sil MS 0.25(mm)
480-224872-3	EFF-102324	10/30/2024 14:24	1	Y04611.D	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)
ZZZZZ (Client)		10/30/2024 15:46	500		RXI-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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.: 480-224872-1

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.: 480-224872-1

SDG No.:

Batch Number: 730235 Batch Start Date: 10/29/24 09:26 Batch Analyst: Pollock, Jacob M

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 480-730235/1		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	
LCS 480-730235/2		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	1 mL
LCSD 480-730235/3		3510C, 8270D			250 mL	1 mL	5 SU	<2 SU	>11 SU	1 mL
480-224872-A-3	EFF-102324	3510C, 8270D	Water	T	250 mL	1 mL	7 SU	<2 SU	>11 SU	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	O_8270LLsurr 00103					
MB 480-730235/1		3510C, 8270D			1 mL					
LCS 480-730235/2		3510C, 8270D			1 mL					
LCSD 480-730235/3		3510C, 8270D			1 mL					
480-224872-A-3	EFF-102324	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	JP
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	No
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	JP
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.: 480-224872-1

SDG No.:

Batch Number: 730235 Batch Start Date: 10/29/24 09:26 Batch Analyst: Pollock, Jacob M

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: 480-224872-1

SDG No.:

Project: SMC Lewiston - Annual

Client Sample ID	Lab Sample ID
EFF-102324	480-224872-3

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: EFF-102324 | Lab Sample ID: 480-224872-3

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG ID.:

Matrix: Water | Date Sampled: 10/23/2024 11:05

Reporting Basis: WET | Date Received: 10/25/2024 11:45

Preparation Batch Number: 730151 | Instrument ID: ICAP4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0056	0.015	0.0056	mg/L	U		1	6010D
7440-47-3	Chromium	0.0010	0.0040	0.0010	mg/L	U		1	6010D
7440-50-8	Copper	0.0016	0.010	0.0016	mg/L	U		1	6010D
7440-02-0	Nickel	0.0013	0.010	0.0013	mg/L	U		1	6010D
7439-92-1	Lead	0.0061	0.010	0.0030	mg/L	J		1	6010D
7782-49-2	Selenium	0.0087	0.025	0.0087	mg/L	U		1	6010D
7440-66-6	Zinc	0.0015	0.010	0.0015	mg/L	U	^5- L	1	6010D

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

ICV Source: MEI_MSS_ICV_00174 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00353

Analyte	ICV 480-730572/5 10/30/2024 10:10				CCV 480-730572/14 10/30/2024 10:41				CCV 480-730572/20 10/30/2024 14:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.767		0.752	102	0.942		1.00	94	0.928		1.00	93
Chromium	0.742		0.751	99	0.973		1.00	97	0.985		1.00	98
Lead	0.765		0.750	102	0.973		1.00	97	0.956		1.00	96
Nickel	0.763		0.750	102	0.974		1.00	97	0.963		1.00	96
Selenium	0.785		0.750	105	0.948		1.00	95	0.934		1.00	93
Zinc	0.715		0.750	95	0.989		1.00	99	1.00		1.00	100
Copper	0.725		0.751	97	0.965		1.00	96	0.955		1.00	95

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.: 480-224872-1

SDG No.:

ICV Source: MEI_MSS_ICV_00174 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00353

Analyte	CCV 480-730572/46 10/30/2024 14:58				CCV 480-730572/59 10/30/2024 15:32				CCV 480-730572/71 10/30/2024 15:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.918		1.00	92	0.918		1.00	92	0.917		1.00	91
Chromium	0.986		1.00	98	0.988		1.00	99	0.991		1.00	99
Lead	0.963		1.00	96	0.957		1.00	96	0.955		1.00	95
Nickel	0.969		1.00	97	0.970		1.00	97	0.969		1.00	97
Selenium	0.923		1.00	92	0.919		1.00	92	0.921		1.00	92
Zinc	1.01		1.00	101	1.01		1.00	101	1.01		1.00	101
Copper	0.943		1.00	94	0.947		1.00	95	0.952		1.00	95

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.: 480-224872-1

SDG No.:

ICV Source: MEI_10_CCVL_00530 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00530

Analyte	ICVL 480-730572/7 10/30/2024 10:19				CCVL 480-730572/16 10/30/2024 10:45				CCVL 480-730572/22 10/30/2024 14:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0171		0.0150	114	0.0157		0.0150	105	0.0143	J	0.0150	96
Chromium	0.00426		0.00400	106	0.00415		0.00400	104	0.00424		0.00400	106
Lead	0.0115		0.0100	115	0.00813	J	0.0100	81	0.0103		0.0100	103
Nickel	0.0109		0.0100	109	0.0109		0.0100	109	0.0107		0.0100	107
Selenium	0.0238	J	0.0250	95	0.0235	J	0.0250	94	0.0233	J	0.0250	93
Zinc	0.0110		0.0100	110	0.0105		0.0100	105	0.0105		0.0100	105
Copper	0.00977	J	0.0100	98	0.00954	J	0.0100	95	0.00949	J	0.0100	95

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.: 480-224872-1

SDG No.:

ICV Source: MEI_10_CCVL_00530 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00530

Analyte	CCVL 480-730572/45 10/30/2024 14:53				CCVL 480-730572/61 10/30/2024 15:36				CCVL 480-730572/73 10/30/2024 15:59			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0165		0.0150	110	0.0168		0.0150	112	0.0147	J	0.0150	98
Chromium	0.00397	J	0.00400	99	0.00393	J	0.00400	98	0.00400		0.00400	100
Lead	0.00875	J	0.0100	87	0.00713	J	0.0100	71	0.00712	J	0.0100	71
Nickel	0.00965	J	0.0100	97	0.0104		0.0100	104	0.0108		0.0100	108
Selenium	0.0220	J	0.0250	88	0.0214	J	0.0250	85	0.0238	J	0.0250	95
Zinc	0.0105		0.0100	105	0.0100		0.0100	100	0.0105		0.0100	105
Copper	0.00942	J	0.0100	94	0.00904	J	0.0100	90	0.00921	J	0.0100	92

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.: 480-224872-1

SDG No.:

ICV Source: MEI_MSS_ICV_00174 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00353

Analyte	ICV 480-730400/6 10/29/2024 09:47				ICV 480-730400/7 10/29/2024 09:57				CCV 480-730400/17 10/29/2024 10:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.767		0.752	102	0.765		0.752	102	1.01		1.00	100
Chromium	0.715		0.751	95	0.719		0.751	96	0.957		1.00	96
Copper	0.724		0.751	96	0.723		0.751	96	0.982		1.00	98
Lead	0.760		0.750	101	0.759		0.750	101	1.02		1.00	102
Nickel	0.724		0.750	97	0.725		0.750	97	0.949		1.00	95
Selenium	0.762		0.750	102	0.760		0.750	101	1.00		1.00	100
Zinc	0.717		0.750	96	0.722		0.750	96	1.02		1.00	102

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.: 480-224872-1

SDG No.:

ICV Source: MEI_MSS_ICV_00174 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00353

Analyte	CCV 480-730400/22 10/29/2024 16:29				CCV 480-730400/34 10/29/2024 16:52				CCV 480-730400/45 10/29/2024 17:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.970		1.00	97	0.975		1.00	97	0.966		1.00	96
Chromium	0.950		1.00	95	0.953		1.00	95	0.950		1.00	95
Copper	1.00		1.00	100	1.01		1.00	101	1.00		1.00	100
Lead	0.996		1.00	100	0.998		1.00	100	0.991		1.00	99
Nickel	0.948		1.00	95	0.951		1.00	95	0.945		1.00	95
Selenium	0.982		1.00	98	0.994		1.00	99	0.994		1.00	99
Zinc	0.990		1.00	99	0.997		1.00	100	0.995		1.00	99

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.: 480-224872-1

SDG No.:

ICV Source: MEI_10_CCVL_00530 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00530

Analyte	ICVL 480-730400/9 10/29/2024 10:02				CCVL 480-730400/19 10/29/2024 10:31				CCVL 480-730400/24 10/29/2024 16:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0150		0.0150	100	0.0177		0.0150	118	0.0140	J	0.0150	93
Chromium	0.00439		0.00400	110	0.00441		0.00400	110	0.00464		0.00400	116
Copper	0.00861	J	0.0100	86	0.00828	J	0.0100	83	0.00901	J	0.0100	90
Lead	0.00886	J	0.0100	89	0.0128		0.0100	128	0.0128		0.0100	128
Nickel	0.00986	J	0.0100	99	0.00931	J	0.0100	93	0.00950	J	0.0100	95
Selenium	0.0214	J	0.0250	85	0.0217	J	0.0250	87	0.0254		0.0250	102
Zinc	0.00953	J	0.0100	95	0.00954	J	0.0100	95	0.00962	J	0.0100	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.: 480-224872-1

SDG No.:

ICV Source: MEI_10_CCVL_00530 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00530

Analyte	CCVL 480-730400/36 10/29/2024 16:55				CCVL 480-730400/47 10/29/2024 17:16							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	0.0154		0.0150	103	0.0170		0.0150	113				
Chromium	0.00440		0.00400	110	0.00465		0.00400	116				
Copper	0.00915	J	0.0100	91	0.00926	J	0.0100	93				
Lead	0.0146		0.0100	146	0.0101		0.0100	101				
Nickel	0.00874	J	0.0100	87	0.00930	J	0.0100	93				
Selenium	0.0254		0.0250	102	0.0251		0.0250	100				
Zinc	0.00944	J	0.0100	94	0.00951	J	0.0100	95				

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.: 480-224872-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-730572/6 10/30/2024 10:17		CCB 480-730572/15 10/30/2024 10:43		CCB 480-730572/21 10/30/2024 14:02		CCB 480-730572/44 10/30/2024 14:51	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Chromium	0.0040	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Lead	0.010	0.0030	U	0.0030	U	0.0030	U	0.0030	U
Nickel	0.010	0.0013	U	0.0013	U	0.0013	U	0.0013	U
Selenium	0.025	0.0087	U	0.0087	U	0.0087	U	0.0087	U
Zinc	0.010	0.0015	U	0.0015	U	0.0015	U	0.0015	U
Copper	0.010	0.0016	U	0.0016	U	0.0016	U	0.0016	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-730572/60 10/30/2024 15:34		CCB 480-730572/72 10/30/2024 15:57					
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	0.0056	U	0.0056	U				
Chromium	0.0040	0.0010	U	0.0010	U				
Lead	0.010	0.0030	U	0.0030	U				
Nickel	0.010	0.0013	U	0.0013	U				
Selenium	0.025	0.0087	U	0.0087	U				
Zinc	0.010	0.0015	U	0.0015	U				
Copper	0.010	0.0016	U	0.0016	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-730400/8 10/29/2024 10:00		CCB 480-730400/18 10/29/2024 10:24		CCB 480-730400/23 10/29/2024 16:31		CCB 480-730400/35 10/29/2024 16:54	
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	0.0056	U	0.0056	U	0.0056	U	0.0056	U
Chromium	0.0040	0.0010	U	0.0010	U	0.0010	U	0.00106	J
Copper	0.010	0.0016	U	0.0016	U	0.0016	U	0.0016	U
Lead	0.010	0.00379	J	0.0030	U	0.0030	U	0.00409	J
Nickel	0.010	0.0013	U	0.0013	U	0.0013	U	0.0013	U
Selenium	0.025	0.0087	U	0.0087	U	0.0087	U	0.00953	J
Zinc	0.010	0.0015	U	0.0015	U	0.00394	J	0.00425	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-730400/46 10/29/2024 17:14							
		Found	C	Found	C	Found	C	Found	C
Arsenic	0.015	0.0056	U						
Chromium	0.0040	0.0010	U						
Copper	0.010	0.0016	U						
Lead	0.010	0.0030	U						
Nickel	0.010	0.0013	U						
Selenium	0.025	0.0087	U						
Zinc	0.010	0.00396	J						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-730151/1-A

Instrument Code: ICAP4 Batch No.: 730400

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.0056	U		6010D
7440-47-3	Chromium	0.0010	U		6010D
7440-50-8	Copper	0.0016	U		6010D
7440-02-0	Nickel	0.0013	U		6010D
7439-92-1	Lead	0.0030	U		6010D
7782-49-2	Selenium	0.0087	U		6010D
7440-66-6	Zinc	0.0015	U	^5-	6010D

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICSA 480-730572/8 Instrument ID: ICAP3

Lab File ID: I320241030A - 2.csv ICS Source: MEI_MSS_ICSA_00073

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**-0.0067**	
Chromium		**0.0017**	
Lead		**0.0000**	
Nickel		**0.0009**	
Selenium		**-0.0001**	
Zinc		**0.0005**	
Aluminum	*500*	*494*	*99*
Antimony		*-0.0144*	
Barium	*0.0120*	*0.0024*	
Beryllium		*0.0001*	
Boron		*-0.0007*	
Cadmium		*-0.0001*	
Calcium	*500*	*470*	*94*
Cobalt		*0.0014*	
Copper		*0.0009*	
Iron	*200*	*175*	*87*
Iron	*200*	*189*	*94*
Lithium		*0.0036*	
Magnesium	*500*	*509*	*102*
Manganese		*0.0017*	
Molybdenum		*-0.0023*	
Potassium		*0.0000*	
Silicon		*-0.0483*	
Silver		*0.0017*	
Sodium		*0.136*	
Sodium		*0.0214*	
Strontium		*0.0042*	
Sulfur		*0.0000*	
Thallium		*0.0098*	
Tin		*0.0020*	
Titanium		*-0.0014*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICSAB 480-730572/9 Instrument ID: ICAP3

Lab File ID: I320241030A - 2.csv ICS Source: MEI_MSS_ICSAB_00068

Concentration Units: mg/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Arsenic	**0.500**	**0.484**	**97**
Chromium	**0.500**	**0.476**	**95**
Lead	**0.500**	**0.490**	**98**
Nickel	**0.501**	**0.490**	**98**
Selenium	**0.500**	**0.480**	**96**
Zinc	**0.501**	**0.450**	**90**
Aluminum	*500*	*491*	*98*
Antimony	*0.500*	*0.473*	*95*
Barium	*0.513*	*0.500*	*98*
Beryllium	*0.250*	*0.248*	*99*
Boron	*5.00*	*4.98*	*100*
Cadmium	*0.500*	*0.499*	*100*
Calcium	*500*	*467*	*93*
Cobalt	*0.500*	*0.486*	*97*
Copper	*0.500*	*0.535*	*107*
Iron	*200*	*171*	*86*
Iron	*200*	*188*	*94*
Lithium		*0.0038*	
Magnesium	*500*	*506*	*101*
Manganese	*0.501*	*0.465*	*93*
Molybdenum	*0.500*	*0.470*	*94*
Potassium	*5.00*	*5.09*	*102*
Silicon	*5.00*	*4.62*	*92*
Silver	*0.500*	*0.499*	*100*
Sodium	*5.00*	*5.34*	*107*
Sodium	*5.00*	*5.08*	*102*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*0.0033*	
Thallium	*0.500*	*0.505*	*101*
Tin	*0.500*	*0.483*	*97*
Titanium	*0.500*	*0.501*	*100*
Vanadium	*0.500*	*0.477*	*95*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICSA 480-730400/10 Instrument ID: ICAP4

Lab File ID: I420241029A -3.csv ICS Source: MEI_MSS_ICSA_00068

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Found Percent Recovery
Arsenic		**-0.0035**	
Chromium		**0.0022**	
Copper		**0.0006**	
Lead		**0.0000**	
Nickel		**-0.0004**	
Selenium		**0.0121**	
Zinc		**0.0014**	
Aluminum	*500*	*494*	*99*
Antimony		*0.0061*	
Barium	*0.0120*	*0.0022*	
Beryllium		*0.0001*	
Boron		*0.0025*	
Cadmium		*0.0009*	
Calcium	*500*	*471*	*94*
Cobalt		*0.0008*	
Iron	*200*	*180*	*90*
Iron	*200*	*190*	*95*
Lithium		*-0.0012*	
Magnesium	*500*	*502*	*100*
Manganese		*0.0021*	
Molybdenum		*0.0038*	
Potassium		*0.0000*	
Silicon		*-0.0140*	
Silver		*0.0011*	
Sodium		*0.170*	
Sodium		*-0.0479*	
Strontium		*0.0000*	
Sulfur		*0.0000*	
Thallium		*0.0094*	
Tin		*-0.0022*	
Titanium		*-0.0050*	
Vanadium		*0.0002*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Lab Sample ID: ICSAB 480-730400/11 Instrument ID: ICAP4

Lab File ID: I420241029A -3.csv ICS Source: MEI_MSS_ICSAB_00068

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Arsenic	**0.500**	**0.501**	**100**
Chromium	**0.500**	**0.474**	**95**
Copper	**0.500**	**0.530**	**106**
Lead	**0.500**	**0.505**	**101**
Nickel	**0.501**	**0.482**	**96**
Selenium	**0.500**	**0.498**	**100**
Zinc	**0.501**	**0.459**	**92**
Aluminum	*500*	*494*	*99*
Antimony	*0.500*	*0.502*	*100*
Barium	*0.513*	*0.514*	*100*
Beryllium	*0.250*	*0.251*	*101*
Boron	*5.00*	*5.06*	*101*
Cadmium	*0.500*	*0.509*	*102*
Calcium	*500*	*469*	*94*
Cobalt	*0.500*	*0.495*	*99*
Iron	*200*	*180*	*90*
Iron	*200*	*189*	*95*
Lithium		*-0.0010*	
Magnesium	*500*	*501*	*100*
Manganese	*0.501*	*0.464*	*93*
Molybdenum	*0.500*	*0.492*	*98*
Potassium	*5.00*	*5.13*	*103*
Silicon	*5.00*	*4.71*	*94*
Silver	*0.500*	*0.502*	*100*
Sodium	*5.00*	*5.25*	*105*
Sodium	*5.00*	*4.94*	*99*
Strontium	*0.500*	*0.497*	*99*
Sulfur		*0.0111*	
Thallium	*0.500*	*0.534*	*107*
Tin	*0.500*	*0.487*	*97*
Titanium	*0.500*	*0.498*	*100*
Vanadium	*0.500*	*0.485*	*97*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: EFF-102324 MS Lab ID: 480-224872-3 MS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

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
Arsenic	1.00		0.0056	U	1.00	100	75-125		6010D
Chromium	0.473		0.0010	U	0.500	95	75-125		6010D
Copper	0.530		0.0016	U	0.500	106	75-125		6010D
Nickel	0.483		0.0013	U	0.500	97	75-125		6010D
Lead	0.506		0.0061	J	0.500	100	75-125		6010D
Selenium	1.02		0.0087	U	1.00	102	75-125		6010D
Zinc	0.464		0.0015	U	0.500	93	75-125	^5-	6010D
Zinc	0.460		0.0015	U	0.500	92	75-125	^5-	6010D

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 - TOTAL RECOVERABLE

Client ID: EFF-102324 MSD Lab ID: 480-224872-3 MSD

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Matrix: Water Concentration Units: mg/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	1.00		1.00	100	75-125	0	20		6010D
Arsenic	0.961		1.00	96	75-125	0	20		6010D
Chromium	0.486		0.500	97	75-125	0	20		6010D
Chromium	0.473		0.500	95	75-125	0	20		6010D
Copper	0.528		0.500	106	75-125	0	20		6010D
Nickel	0.481		0.500	96	75-125	1	20		6010D
Nickel	0.512		0.500	102	75-125	0	20		6010D
Lead	0.512		0.500	101	75-125	1	20		6010D
Lead	0.512		0.500	102	75-125	0	20		6010D
Selenium	0.965		1.00	96	75-125	1	20		6010D
Selenium	1.01		1.00	101	75-125	0	20		6010D
Zinc	0.464		0.500	93	75-125	0	20	^5-	6010D
Zinc	0.461		0.500	92	75-125	0	20	^5-	6010D

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: EFF-102324 PDS | Lab ID: 480-224872-3 PDS

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG No.:

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	0.849		0.0056	U	1.00	85	75-125		6010D
Chromium	0.399		0.0010	U	0.500	80	75-125		6010D
Copper	0.449		0.0016	U	0.500	90	75-125		6010D
Nickel	0.408		0.0013	U	0.500	82	75-125		6010D
Lead	0.429		0.0061	J	0.500	85	75-125		6010D
Selenium	0.865		0.0087	U	1.00	86	75-125		6010D
Zinc	0.403		0.0015	U	0.500	81	75-125		6010D
Zinc	0.399		0.0015	U	0.500	80	75-125		6010D

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VB - IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 480-730400/20

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

Sample Matrix: LCS Source: LRC_00007

Analyte	(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	5.00	4.94		99	90	110		6010D
Chromium	10.0	9.01		90	90	110		6010D
Copper	8.00	8.65		108	90	110		6010D
Nickel	10.0	9.14		91	90	110		6010D
Lead	40.0	42.65		107	90	110		6010D
Selenium	40.0	40.26		101	90	110		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-730151/2-A

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

Sample Matrix: Water LCS Source: Spike Mx 1_00006

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	1.00	0.987		99	80	120		6010D
Chromium	0.500	0.483		97	80	120		6010D
Copper	0.500	0.490		98	80	120		6010D
Nickel	0.500	0.494		99	80	120		6010D
Lead	0.500	0.502		100	80	120		6010D
Selenium	1.00	0.984		98	80	120		6010D
Zinc	0.500	0.509		102	80	120	^5-	6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 480-730572/17

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

Sample Matrix: LCS Source: LRC_00007

Analyte	(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	5.00	4.92		98	90	110		6010D
Chromium	10.0	9.07		91	90	110		6010D
Nickel	10.0	10.02		100	90	110		6010D
Lead	40.0	41.94		105	90	110		6010D
Selenium	40.0	39.10		98	90	110		6010D
Zinc	20.0	16.86		84	90	110	^5-	6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-730151/2-A

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

Sample Matrix: Water LCS Source: MEP_Mix4_00012

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Zinc	0.500	0.509		102	80	120	^5-	6010D

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 - TOTAL RECOVERABLE

Lab ID: 480-224872-3

SDG No:

Lab Name: Eurofins Buffalo Job No: 480-224872-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.0056	U	0.028	U	NC		6010D
Chromium	0.0010	U	0.0050	U	NC		6010D
Copper	0.0016	U	0.0080	U	NC		6010D
Nickel	0.0013	U	0.0063	U	NC		6010D
Lead	0.0061	J	0.0209	J	NC		6010D
Selenium	0.0087	U	0.044	U	NC		6010D
Zinc	0.0015	U	0.0075	U	NC		6010D
Zinc	0.0015	U	0.0075	U	NC		6010D

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: ICAP3

Method: 6010D MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: ICAP3

Method: 6010D XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Arsenic	189.042	0.015	0.00555
Chromium	267.716	0.004	0.001
Copper	327.396	0.01	0.0016
Lead	220.353	0.01	0.003
Nickel	231.604	0.01	0.00126
Selenium	196.090	0.025	0.0087

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: ICAP4

Method: 6010D XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Arsenic	189.042	0.015	0.00555
Chromium	267.716	0.004	0.001
Copper	327.396	0.01	0.0016
Lead	220.353	0.01	0.003
Nickel	231.604	0.01	0.00126
Selenium	196.090	0.025	0.0087

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum	308.215														
Antimony	206.833										-0.005993893				
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			-0.004570540											
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940		-0.000046175				-0.000404404		-0.003873957						
Iron	271.441									-0.075119733					
Lead	220.353		0.000023449 1										-0.000027926		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Thallium	190.856									-0.002014286					
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959			-0.019517455											
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716		-0.000108003												
Cobalt	228.616													-0.001722635	
Copper	327.396			0.0004740506											
Iron	259.940			-0.001011616											
Iron	271.441														
Lead	220.353			0.0014705151											
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Thallium	190.856		-0.000463424												
Tin	189.989														
Titanium	334.904			-0.000583874											
Vanadium	292.402														
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	V	Zn												
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Iron	271.441														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068	0.0014803858													
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856														
Tin	189.989														
Titanium	334.904														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP3 Date: 08/21/2024

Analyte	Wave Length	V	Zn												
Vanadium	292.402														
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Aluminum	308.215						-0.008176664							00146	
Antimony	206.833										-0.004449992				
Arsenic	189.042														
Barium	455.403						-0.000078338				-0.000025791				
Beryllium	313.042														
Boron	208.959						-0.001382129								
Cadmium	228.802			-0.002169575											
Calcium	317.933						-0.021380513								
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	049.95														
Iron	271.441		-0.000092518						-0.01029245	-0.065672408					
Lead	220.353		0.0000675259										-0.000038363		
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490		-0.001465902												
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Li
Strontium	407.771							-0.000021909							
Sulfur	182.034		-0.000576615												
Thallium	190.856									-0.002165504					
Tin	189.989														
Titanium	334.904														
Vanadium	292.402												-0.000020611		
Zinc	206.200														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959			-0.022248107											
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616													-0.001754935	
Copper	327.396														
Iron	271.441	-0.000190944													
Iron	049.95														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610			0.020388576											
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090		-0.000536818												
Silicon	288.158													-0.065408222	
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti	Tl
Thallium	190.856		-0.000390962												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402			0.002980494										-0.000464775	
Zinc	206.200				-0.000050626										

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	V	Zn												
Aluminum	308.215	0.0014139582													
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	049.95														
Iron	271.441														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856														
Tin	189.989														
Titanium	334.904														

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG No.:

ICP-AES Instrument ID: ICAP4 Date: 08/21/2024

Analyte	Wave Length	V	Zn												
Vanadium	292.402														
Zinc	206.200														

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-224872-1

SDG No.:

Instrument ID: ICAP3 Date: 08/23/2024 17:02

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Zinc	15	20	6010D

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Buffalo Job No: 480-224872-1

SDG No.:

Instrument ID: ICAP4 Date: 09/05/2024 12:08

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic	15	5	6010D
Chromium	15	10	6010D
Copper	15	8	6010D
Nickel	15	10	6010D
Lead	15	40	6010D
Selenium	15	40	6010D

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-730151/1-A	10/29/2024 08:45	730151		50	50
LCS 480-730151/2-A	10/29/2024 08:45	730151		50	50
480-224872-3	10/29/2024 08:45	730151		50	50
480-224872-3 MS	10/29/2024 08:45	730151		50	50
480-224872-3 MSD	10/29/2024 08:45	730151		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP3 Method: 6010D

Start Date: 10/30/2024 09:46 End Date: 10/30/2024 18:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				As	Cr	Ni	Pb	Se	Zn														
ICIS 480-730572/1	1		09:46	X	X	X	X	X	X														
IC 480-730572/2			09:48	X	X	X	X	X	X														
IC 480-730572/3			09:50	X	X	X	X	X	X														
IC 480-730572/4			09:52	X	X	X	X	X	X														
ICV 480-730572/5	1		10:10	X	X	X	X	X	X														
ICB 480-730572/6	1		10:17	X	X	X	X	X	X														
ICVL 480-730572/7	1		10:19	X	X	X	X	X	X														
ICSA 480-730572/8	1		10:28	X	X	X	X	X	X														
ICSAB 480-730572/9	1		10:30	X	X	X	X	X	X														
ZZZZZZ			10:31																				
ZZZZZZ			10:33																				
ZZZZZZ			10:35																				
ZZZZZZ			10:39																				
CCV 480-730572/14	1		10:41	X	X	X	X	X	X														
CCB 480-730572/15	1		10:43	X	X	X	X	X	X														
CCVL 480-730572/16	1		10:45	X	X	X	X	X	X														
LRC 480-730572/17	1		10:47	X	X	X	X	X	X														
ZZZZZZ			11:09																				
RINSE 480-730572/19			13:58																				
CCV 480-730572/20	1		14:00	X	X	X	X	X	X														
CCB 480-730572/21	1		14:02	X	X	X	X	X	X														
CCVL 480-730572/22	1		14:04	X	X	X	X	X	X														
ZZZZZZ (QC)			14:09																				
ZZZZZZ (QC)			14:11																				
ZZZZZZ (Client)			14:13																				
ZZZZZZ (QC)			14:15																				
ZZZZZZ (QC)			14:17																				
ZZZZZZ (QC)			14:19																				
ZZZZZZ (QC)			14:21																				
ZZZZZZ (Client)			14:23																				
ZZZZZZ (Client)			14:24																				
CCV 480-730572/32			14:26																				
CCB 480-730572/33			14:28																				
CCVL 480-730572/34			14:30																				
ZZZZZZ (Client)			14:32																				
ZZZZZZ (Client)			14:34																				
ZZZZZZ (Client)			14:36																				
ZZZZZZ (Client)			14:38																				
ZZZZZZ (Client)			14:40																				
ZZZZZZ (Client)			14:42																				
ZZZZZZ (Client)			14:43																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP3 Method: 6010D

Start Date: 10/30/2024 09:46 End Date: 10/30/2024 18:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				As	Cr	Ni	Pb	Se	Zn														
ZZZZZZ (Client)			14:45																				
ZZZZZZ (Client)			14:47																				
CCB 480-730572/44	1		14:51	X	X	X	X	X	X														
CCVL 480-730572/45	1		14:53	X	X	X	X	X	X														
CCV 480-730572/46	1		14:58	X	X	X	X	X	X														
RINSE 480-730572/47			15:00																				
LCS 480-730151/2-A	1	R	15:08						X														
ZZZZZZ (Client)			15:10																				
ZZZZZZ (Client)			15:12																				
ZZZZZZ (Client)			15:14																				
ZZZZZZ (Client)			15:16																				
RINSE 480-730572/53			15:21																				
ZZZZZZ (Client)			15:22																				
ZZZZZZ (Client)			15:24																				
ZZZZZZ (Client)			15:26																				
ZZZZZZ (Client)			15:28																				
RINSE 480-730572/58			15:30																				
CCV 480-730572/59	1		15:32	X	X	X	X	X	X														
CCB 480-730572/60	1		15:34	X	X	X	X	X	X														
CCVL 480-730572/61	1		15:36	X	X	X	X	X	X														
480-224872-3	1	R	15:38						X														
ZZZZZZ (Client)			15:40																				
480-224872-3 SD	5	R	15:42						X														
480-224872-3 PDS	1	R	15:44						X														
ZZZZZZ (QC)			15:46																				
480-224872-3 MS	1	R	15:48						X														
ZZZZZZ (QC)			15:50																				
480-224872-3 MSD	1	R	15:52	X	X	X	X	X	X														
ZZZZZZ (QC)			15:54																				
CCV 480-730572/71	1		15:55	X	X	X	X	X	X														
CCB 480-730572/72	1		15:57	X	X	X	X	X	X														
CCVL 480-730572/73	1		15:59	X	X	X	X	X	X														
ZZZZZZ (QC)			16:07																				
ZZZZZZ (QC)			16:09																				
ZZZZZZ (Client)			16:10																				
ZZZZZZ (QC)			16:12																				
ZZZZZZ (QC)			16:14																				
ZZZZZZ (QC)			16:16																				
ZZZZZZ (QC)			16:18																				
ZZZZZZ (Client)			16:20																				
ZZZZZZ (Client)			16:22																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP3 Method: 6010D

Start Date: 10/30/2024 09:46 End Date: 10/30/2024 18:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				As	Cr	Ni	Pb	Se	Zn															
CCV 480-730572/83			16:24																				
CCB 480-730572/84			16:26																				
CCVL 480-730572/85			16:28																				
ZZZZZZ (Client)			16:30																				
ZZZZZZ (Client)			16:31																				
ZZZZZZ (Client)			16:33																				
ZZZZZZ (Client)			16:35																				
ZZZZZZ (Client)			16:37																				
ZZZZZZ (Client)			16:39																				
ZZZZZZ (Client)			16:41																				
ZZZZZZ (Client)			16:43																				
ZZZZZZ (Client)			16:45																				
CCV 480-730572/95			16:53																				
CCB 480-730572/96			16:55																				
CCVL 480-730572/97			16:56																				
ZZZZZZ (QC)			16:59																				
ZZZZZZ (QC)			17:01																				
ZZZZZZ (Client)			17:03																				
ZZZZZZ (Client)			17:05																				
RINSE 480-730572/102			17:07																				
ZZZZZZ (QC)			17:08																				
ZZZZZZ (QC)			17:10																				
ZZZZZZ (Client)			17:12																				
ZZZZZZ (QC)			17:14																				
CCV 480-730572/107			17:16																				
CCB 480-730572/108			17:18																				
CCVL 480-730572/109			17:20																				
ZZZZZZ (QC)			17:22																				
ZZZZZZ (QC)			17:24																				
ZZZZZZ (QC)			17:26																				
ZZZZZZ (Client)			17:28																				
ZZZZZZ (Client)			17:30																				
ZZZZZZ (Client)			17:31																				
ZZZZZZ (Client)			17:33																				
ZZZZZZ (Client)			17:35																				
ZZZZZZ (Client)			17:37																				
CCV 480-730572/119			17:39																				
CCB 480-730572/120			17:41																				
CCVL 480-730572/121			17:43																				
ZZZZZZ (Client)			17:45																				
ZZZZZZ (Client)			17:47																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP3 Method: 6010D

Start Date: 10/30/2024 09:46 End Date: 10/30/2024 18:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				As	Cr	Ni	Pb	Se	Zn														
ZZZZZZ (Client)			17:49																				
ZZZZZZ (Client)			17:51																				
ZZZZZZ (Client)			17:52																				
ZZZZZZ (Client)			17:54																				
ZZZZZZ (Client)			17:56																				
ZZZZZZ (Client)			17:58																				
ZZZZZZ (Client)			18:00																				
CCV 480-730572/131			18:02																				
CCB 480-730572/132			18:04																				
CCVL 480-730572/133			18:06																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 10/29/2024 09:28 End Date: 10/29/2024 17:39

Lab Sample ID	D/F	Type	Time	Analytes																		
				As	Cr	Cu	Ni	Pb	Se	Zn												
RINSE 480-730400/1			09:28																			
ICIS 480-730400/2	1		09:31	X	X	X	X	X	X	X												
IC 480-730400/3			09:32	X	X	X	X	X	X	X												
IC 480-730400/4			09:34	X	X	X	X	X	X	X												
IC 480-730400/5			09:36	X	X	X	X	X	X	X												
ICV 480-730400/6	1		09:47	X	X	X	X	X	X	X												
ICV 480-730400/7	1		09:57	X	X	X	X	X	X	X												
ICB 480-730400/8	1		10:00	X	X	X	X	X	X	X												
ICVL 480-730400/9	1		10:02	X	X	X	X	X	X	X												
ICSA 480-730400/10	1		10:09	X	X	X	X	X	X	X												
ICSAB 480-730400/11	1		10:11	X	X	X	X	X	X	X												
ZZZZZZ			10:13																			
ZZZZZZ			10:15																			
ZZZZZZ			10:16																			
ZZZZZZ			10:18																			
ZZZZZZ			10:20																			
CCV 480-730400/17	1		10:22	X	X	X	X	X	X	X												
CCB 480-730400/18	1		10:24	X	X	X	X	X	X	X												
CCVL 480-730400/19	1		10:31	X	X	X	X	X	X	X												
LRC 480-730400/20	1		10:33	X	X	X	X	X	X													
RINSE 480-730400/21			16:27																			
CCV 480-730400/22	1		16:29	X	X	X	X	X	X	X												
CCB 480-730400/23	1		16:31	X	X	X	X	X	X	X												
CCVL 480-730400/24	1		16:33	X	X	X	X	X	X	X												
MB 480-730151/1-A	1	R	16:35	X	X	X	X	X	X	X												
LCS 480-730151/2-A	1	R	16:37	X	X	X	X	X	X	X												
ZZZZZZ (Client)			16:38																			
ZZZZZZ (Client)			16:40																			
ZZZZZZ (Client)			16:42																			
ZZZZZZ (Client)			16:44																			
ZZZZZZ (Client)			16:46																			
ZZZZZZ (Client)			16:48																			
ZZZZZZ (Client)			16:50																			
CCV 480-730400/34	1		16:52	X	X	X	X	X	X	X												
CCB 480-730400/35	1		16:54	X	X	X	X	X	X	X												
CCVL 480-730400/36	1		16:55	X	X	X	X	X	X	X												
ZZZZZZ (Client)			16:57																			
ZZZZZZ (Client)			16:59																			
480-224872-3	1	R	17:01	X	X	X	X	X	X													
480-224872-3 SD	5	R	17:03	X	X	X	X	X	X	X												
480-224872-3 PDS	1	R	17:05	X	X	X	X	X	X	X												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: ICAP4 Method: 6010D

Start Date: 10/29/2024 09:28 End Date: 10/29/2024 17:39

Lab Sample ID	D/F	Type	Time	Analytes																		
				As	Cr	Cu	Ni	Pb	Se	Zn												
480-224872-3 MS	1	R	17:07	X	X	X	X	X	X	X												
480-224872-3 MSD	1	R	17:09	X	X	X	X	X	X	X												
RINSE 480-730400/44			17:11																			
CCV 480-730400/45	1		17:12	X	X	X	X	X	X	X												
CCB 480-730400/46	1		17:14	X	X	X	X	X	X	X												
CCVL 480-730400/47	1		17:16	X	X	X	X	X	X	X												
ZZZZZZ (QC)			17:18																			
ZZZZZZ (QC)			17:20																			
ZZZZZZ (Client)			17:22																			
ZZZZZZ (QC)			17:24																			
ZZZZZZ (QC)			17:26																			
ZZZZZZ (QC)			17:28																			
ZZZZZZ (QC)			17:30																			
ZZZZZZ (Client)			17:31																			
RINSE 480-730400/56			17:33																			
CCV 480-730400/57			17:35																			
CCB 480-730400/58			17:37																			
CCVL 480-730400/59			17:39																			

Prep Types

R = Total Recoverable

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.: Analysis Batch No.: 730572

ICP Instrument ID: ICAP3 Start Date: 10/30/2024 End Date: 10/30/2024

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-730572/1	09:46										
ICV 480-730572/5	10:10	102		102		102		99			
ICB 480-730572/6	10:17	101		101		100		100			
ICVL 480-730572/7	10:19	101		100		100		96			
ICSA 480-730572/8	10:28	99		98		99		95			
ICSAB 480-730572/9	10:30	102		101		103		96			
CCV 480-730572/14	10:41	106		104		105		98			
CCB 480-730572/15	10:43	104		103		104		100			
CCVL 480-730572/16	10:45	105		104		104		101			
LRC 480-730572/17	10:47	90		94		100		91			
CCV 480-730572/20	14:00	108		104		105		97			
CCB 480-730572/21	14:02	103		102		102		99			
CCVL 480-730572/22	14:04	105		104		103		100			
CCB 480-730572/44	14:51	104		103		102		98			
CCVL 480-730572/45	14:53	104		103		103		99			
CCV 480-730572/46	14:58	108		105		105		95			
LCS 480-730151/2-A	15:08	106		103		105		99			
CCV 480-730572/59	15:32	108		105		104		96			
CCB 480-730572/60	15:34	103		102		102		98			
CCVL 480-730572/61	15:36	104		103		103		97			
480-224872-3	15:38	102		99		103		94			
480-224872-3 SD	15:42	104		101		103		96			
480-224872-3 PDS	15:44	100		98		103		94			
480-224872-3 MS	15:48	101		99		103		95			
480-224872-3 MSD	15:52	101		98		102		94			
CCV 480-730572/71	15:55	108		104		104		96			
CCB 480-730572/72	15:57	103		102		102		98			
CCVL 480-730572/73	15:59	104		102		102		98			
IS Name on Instrument											

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.: Analysis Batch No.: 730400

ICP Instrument ID: ICAP4 Start Date: 10/29/2024 End Date: 10/29/2024

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-730400/2	09:31										
ICV 480-730400/6	09:47	102		100		101		100			
ICV 480-730400/7	09:57	102		101		100		100			
ICB 480-730400/8	10:00	100		101		100		100			
ICVL 480-730400/9	10:02	101		102		100		100			
ICSA 480-730400/10	10:09	95		92		93		92			
ICSAB 480-730400/11	10:11	96		92		93		93			
CCV 480-730400/17	10:22	102		101		100		101			
CCB 480-730400/18	10:24	100		101		99		100			
CCVL 480-730400/19	10:31	101		101		100		100			
LRC 480-730400/20	10:33	93		92		94		94			
CCV 480-730400/22	16:29	100		96		98		97			
CCB 480-730400/23	16:31	97		96		97		96			
CCVL 480-730400/24	16:33	98		96		97		97			
MB 480-730151/1-A	16:35	97		96		97		97			
LCS 480-730151/2-A	16:37	99		96		97		97			
CCV 480-730400/34	16:52	98		95		97		96			
CCB 480-730400/35	16:54	96		95		96		95			
CCVL 480-730400/36	16:55	97		95		96		96			
480-224872-3	17:01	99		94		97		97			
480-224872-3 SD	17:03	99		95		97		97			
480-224872-3 PDS	17:05	98		94		97		97			
480-224872-3 MS	17:07	98		93		97		96			
480-224872-3 MSD	17:09	98		94		97		97			
CCV 480-730400/45	17:12	99		95		97		97			
CCB 480-730400/46	17:14	96		96		96		96			
CCVL 480-730400/47	17:16	97		95		97		96			
IS Name on Instrument											

FORM XV - IN

Sample List Summary

10/31/2024 7:38:53 AM

QTEGRA

LabBook: I320241030A - 2.imexp

Summary

Index	Label	Sample Type	Amount	Final Quantity	Standard DF	Started at
1	ICIS-8122474	BLK			1	10/30/2024 9:46:45 AM
2	IC-8122384	STD			1	10/30/2024 9:48:47 AM
3	IC-8122457	STD			1	10/30/2024 9:50:40 AM
4	IC-8122450	STD			1	10/30/2024 9:52:33 AM
5	ICV-8122463	QC			1	10/30/2024 10:10:43 AM
6	ICB-8122474	QC			1	10/30/2024 10:17:04 AM
7	ICVL-8122384	QC			1	10/30/2024 10:19:04 AM
8	ICSA-8095256	QC			1	10/30/2024 10:28:03 AM
9	ICSAB-8096364	QC			1	10/30/2024 10:30:03 AM
10	ICEX1	UNKNOWN			1	10/30/2024 10:31:56 AM
11	ICEX2	UNKNOWN			1	10/30/2024 10:33:50 AM
12	ICEX3	UNKNOWN			1	10/30/2024 10:35:43 AM
13	ICEX4	UNKNOWN			1	10/30/2024 10:37:36 AM
14	ICEX5	UNKNOWN			1	10/30/2024 10:39:30 AM
15	CCV-8122457	QC			1	10/30/2024 10:41:23 AM
16	CCB-8122474	QC			1	10/30/2024 10:43:18 AM
17	CCVL-8122384	QC			1	10/30/2024 10:45:12 AM
18	LRC-8136335	QC			1	10/30/2024 10:47:48 AM
19	ICEX4	UNKNOWN			1	10/30/2024 11:09:12 AM
20	Rinse Blank	UNKNOWN			1	10/30/2024 1:58:35 PM
21	CCV-8122457	QC			1	10/30/2024 2:00:33 PM
22	CCB-8122474	QC			1	10/30/2024 2:02:27 PM
23	CCVL-8122384	QC			1	10/30/2024 2:04:21 PM
24	MB 480-730243/1-A	UNKNOWN			1	10/30/2024 2:09:50 PM
25	LCSSRM 480-730243/2-A	UNKNOWN			1	10/30/2024 2:11:44 PM
26	480-224888-B-12-E	UNKNOWN			1	10/30/2024 2:13:37 PM
27	480-224888-B-12-ESD@5	UNKNOWN			1	10/30/2024 2:15:31 PM
28	480-224888-B-12-EPDS	UNKNOWN			1	10/30/2024 2:17:24 PM
29	480-224888-B-12-F MS	UNKNOWN			1	10/30/2024 2:19:17 PM
30	480-224888-B-12-G MSD	UNKNOWN			1	10/30/2024 2:21:11 PM
31	480-224888-C-13-C	UNKNOWN			1	10/30/2024 2:23:04 PM
32	480-224888-C-14-C	UNKNOWN			1	10/30/2024 2:24:57 PM
33	CCV-8122457	QC			1	10/30/2024 2:26:51 PM
34	CCB-8122474	QC			1	10/30/2024 2:28:46 PM
35	CCVL-8122384	QC			1	10/30/2024 2:30:39 PM
36	480-224888-B-15-C	UNKNOWN			1	10/30/2024 2:32:35 PM
37	480-224873-A-1-A	UNKNOWN			1	10/30/2024 2:34:28 PM
38	480-224882-A-3-D	UNKNOWN			1	10/30/2024 2:36:21 PM
39	480-224791-C-1-A	UNKNOWN			1	10/30/2024 2:38:14 PM
40	480-224791-A-3-A	UNKNOWN			1	10/30/2024 2:40:08 PM
41	480-224791-B-5-A	UNKNOWN			1	10/30/2024 2:42:02 PM
42	480-224791-B-6-A	UNKNOWN			1	10/30/2024 2:43:55 PM
43	480-224791-B-9-A	UNKNOWN			1	10/30/2024 2:45:48 PM
44	480-224791-A-25-A	UNKNOWN			1	10/30/2024 2:47:42 PM
45	CCV-8122457	QC			1	10/30/2024 2:49:35 PM
46	CCB-8122474	QC			1	10/30/2024 2:51:30 PM
47	CCVL-8122384	QC			1	10/30/2024 2:53:25 PM
48	CCV-8122457	QC			1	10/30/2024 2:58:18 PM
49	Rinse Blank	UNKNOWN			1	10/30/2024 3:00:13 PM
50	LCS 480-730151/2-A	UNKNOWN			1	10/30/2024 3:08:56 PM
51	480-224706-A-1-A	UNKNOWN			1	10/30/2024 3:10:54 PM
52	480-224844-F-1-A	UNKNOWN			1	10/30/2024 3:12:48 PM
53	480-224844-F-1-A@10	UNKNOWN			1	10/30/2024 3:14:41 PM
54	480-224842-K-1-A	UNKNOWN			1	10/30/2024 3:16:35 PM
55	Rinse Blank	UNKNOWN			1	10/30/2024 3:21:00 PM
56	480-224842-K-1-A@10	UNKNOWN			1	10/30/2024 3:22:58 PM
57	480-224843-I-1-A	UNKNOWN			1	10/30/2024 3:24:53 PM
58	480-224843-I-2-A	UNKNOWN			1	10/30/2024 3:26:46 PM
59	480-224843-I-2-A@10	UNKNOWN			1	10/30/2024 3:28:40 PM
60	Rinse Blank	UNKNOWN			1	10/30/2024 3:30:34 PM
61	CCV-8122457	QC			1	10/30/2024 3:32:29 PM
62	CCB-8122474	QC			1	10/30/2024 3:34:24 PM
63	CCVL-8122384	QC			1	10/30/2024 3:36:17 PM
64	480-224872-C-3-A	UNKNOWN			1	10/30/2024 3:38:36 PM
65	480-224872-C-3-A@10	UNKNOWN			1	10/30/2024 3:40:43 PM
66	480-224872-C-3-ASD@5	UNKNOWN			1	10/30/2024 3:42:37 PM
67	480-224872-C-3-APDS	UNKNOWN			1	10/30/2024 3:44:31 PM

Sample List Summary

10/31/2024 7:38:53 AM

QTEGRA

Index	Label	Sample Type	Amount	Final Quantity	Standard DF	Started at
68	480-224872-C-3-APDS@10	UNKNOWN			1	10/30/2024 3:46:25 PM
69	480-224872-C-3-B MS	UNKNOWN			1	10/30/2024 3:48:19 PM
70	480-224872-C-3-B MS@10	UNKNOWN			1	10/30/2024 3:50:12 PM
71	480-224872-C-3-C MSD	UNKNOWN			1	10/30/2024 3:52:06 PM
72	480-224872-C-3-C MSD@10	UNKNOWN			1	10/30/2024 3:54:00 PM
73	CCV-8122457	QC			1	10/30/2024 3:55:53 PM
74	CCB-8122474	QC			1	10/30/2024 3:57:48 PM
75	CCVL-8122384	QC			1	10/30/2024 3:59:42 PM
76	MB 480-730303/1-A	UNKNOWN			1	10/30/2024 4:07:08 PM
77	LCS 480-730303/2-A	UNKNOWN			1	10/30/2024 4:09:05 PM
78	480-224902-D-1-O	UNKNOWN			1	10/30/2024 4:10:59 PM
79	480-224902-D-1-ASD@5	UNKNOWN			1	10/30/2024 4:12:53 PM
80	480-224902-D-1-APDs	UNKNOWN			1	10/30/2024 4:14:47 PM
81	480-224902-D-1-B MS	UNKNOWN			1	10/30/2024 4:16:41 PM
82	480-224902-D-1-C MSD	UNKNOWN			1	10/30/2024 4:18:34 PM
83	480-224902-D-2-A	UNKNOWN			1	10/30/2024 4:20:28 PM
84	480-224902-D-3-A	UNKNOWN			1	10/30/2024 4:22:22 PM
85	CCV-8122457	QC			1	10/30/2024 4:24:16 PM
86	CCB-8122474	QC			1	10/30/2024 4:26:11 PM
87	CCVL-8122384	QC			1	10/30/2024 4:28:05 PM
88	480-224902-D-4-A	UNKNOWN			1	10/30/2024 4:30:01 PM
89	480-224902-D-5-A	UNKNOWN			1	10/30/2024 4:31:55 PM
90	480-224902-D-6-A	UNKNOWN			1	10/30/2024 4:33:49 PM
91	480-224902-D-7-A	UNKNOWN			1	10/30/2024 4:35:43 PM
92	480-224902-D-8-A	UNKNOWN			1	10/30/2024 4:37:37 PM
93	480-224902-D-9-A	UNKNOWN			1	10/30/2024 4:39:31 PM
94	480-224902-D-10-A	UNKNOWN			1	10/30/2024 4:41:25 PM
95	480-224902-D-11-A	UNKNOWN			1	10/30/2024 4:43:19 PM
96	480-224902-D-12-A	UNKNOWN			1	10/30/2024 4:45:14 PM
97	CCV-8122457	QC			1	10/30/2024 4:47:08 PM
98	CCB-8122474	QC			1	10/30/2024 4:49:02 PM
99	CCV-8122457	QC			1	10/30/2024 4:53:06 PM
100	CCB-7933423	QC			1	10/30/2024 4:55:04 PM
101	CCVL-8122384	QC			1	10/30/2024 4:56:58 PM
102	480-224902-D-12-B MS	UNKNOWN			1	10/30/2024 4:59:27 PM
103	480-224902-D-12-C MSD	UNKNOWN			1	10/30/2024 5:01:22 PM
104	480-224902-D-13-A	UNKNOWN			1	10/30/2024 5:03:16 PM
105	480-224902-D-14-A	UNKNOWN			1	10/30/2024 5:05:10 PM
106	rinse	UNKNOWN			1	10/30/2024 5:07:04 PM
107	MB 480-730281/1-A	UNKNOWN			1	10/30/2024 5:08:58 PM
108	LCSSRM 480-730281/2-A	UNKNOWN			1	10/30/2024 5:10:53 PM
109	480-224893-A-3-A	UNKNOWN			1	10/30/2024 5:12:47 PM
110	480-224893-A-3-ASD@5	UNKNOWN			1	10/30/2024 5:14:42 PM
111	CCV-8122457	QC			1	10/30/2024 5:16:36 PM
112	CCB-8122474	QC			1	10/30/2024 5:18:32 PM
113	CCVL-8122384	QC			1	10/30/2024 5:20:27 PM
114	480-224893-A-3-APDS	UNKNOWN			1	10/30/2024 5:22:22 PM
115	480-224893-A-3-B MS	UNKNOWN			1	10/30/2024 5:24:16 PM
116	480-224893-A-3-C MSD	UNKNOWN			1	10/30/2024 5:26:11 PM
117	480-224893-C-6-A	UNKNOWN			1	10/30/2024 5:28:05 PM
118	480-224894-A-1-A	UNKNOWN			1	10/30/2024 5:30:00 PM
119	480-224894-A-2-A	UNKNOWN			1	10/30/2024 5:31:54 PM
120	480-224894-A-3-A	UNKNOWN			1	10/30/2024 5:33:48 PM
121	480-224892-A-3-A	UNKNOWN			1	10/30/2024 5:35:43 PM
122	480-224895-C-1-A	UNKNOWN			1	10/30/2024 5:37:37 PM
123	CCV-8122457	QC			1	10/30/2024 5:39:32 PM
124	CCB-8122474	QC			1	10/30/2024 5:41:27 PM
125	CCVL-8122384	QC			1	10/30/2024 5:43:22 PM
126	480-224895-A-2-A	UNKNOWN			1	10/30/2024 5:45:18 PM
127	480-224895-A-7-A	UNKNOWN			1	10/30/2024 5:47:12 PM
128	480-224895-C-11-A	UNKNOWN			1	10/30/2024 5:49:06 PM
129	480-224895-A-12-A	UNKNOWN			1	10/30/2024 5:51:01 PM
130	480-224895-A-18-A	UNKNOWN			1	10/30/2024 5:52:55 PM
131	480-224895-A-19-A	UNKNOWN			1	10/30/2024 5:54:50 PM
132	480-224895-C-24-A	UNKNOWN			1	10/30/2024 5:56:44 PM
133	480-224895-A-25-A	UNKNOWN			1	10/30/2024 5:58:39 PM
134	480-224895-E-26-A	UNKNOWN			1	10/30/2024 6:00:34 PM
135	CCV-8122457	QC			1	10/30/2024 6:02:29 PM
136	CCB-8122474	QC			1	10/30/2024 6:04:24 PM
137	CCVL-8122384	QC			1	10/30/2024 6:06:19 PM

Basic Sample Report
10/31/2024 7:39:06 AM

LabBook: I320241030A - 2.imexp

Label: ICIS-8122474 #: 1
Analysis Type: BLK Analysis started at: 10/30/2024 9:46:45 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.000 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.000 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	100.000 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.000 ppm	7 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	8 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.000 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.000 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.000 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-7 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.000 ppm	24 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps

Label: IC-8122384 #: 2
Analysis Type: STD Analysis started at: 10/30/2024 9:48:47 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.175 ppm	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	0 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.020 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	5 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.019 ppm	2 cps
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	N/A	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.010 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.388 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.250 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	104.708 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.056 ppm	64 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	6 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.044 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.195 ppm	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.454 ppm	70 cps
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	12 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.195 ppm	19 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	44 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.497 ppm	143 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	25 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	3 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	51 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.653 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.827 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.515 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	164 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	45 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.003 ppm	690 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.030 ppm	92 cps
K 766.490 (ETA AQ-Radial-iFR)	0.494 ppm	79 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.979 ppm	17 cps

Label: IC-8122457 #: 3
Analysis Type: STD Analysis started at: 10/30/2024 9:50:40 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	24.231 ppm	880 cps
As 189.042 (ETA AQ-Axial-iFR)	0.966 ppm	101 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.995 ppm	167 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.978 ppm	90 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.955 ppm	85 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.978 ppm	484 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.989 ppm	774 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.982 ppm	99 cps
B 208.959 (ETA AQ-Axial-iFR)	0.995 ppm	291 cps
P 213.618 (ETA AQ-Axial-iFR)	24.402 ppm	2,293 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.991 ppm	128 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.522 %	741 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Radial-iFR)	100.130 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.983 ppm	581 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.976 ppm	1,198 cps
In 230.606 (ETA AQ-Axial-iFR)	106.310 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.982 ppm	422 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.985 ppm	3,783 cps
Fe 259.940 (ETA AQ-Axial-iFR)	50.022 ppm	54,441 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.977 ppm	1,275 cps
Fe 271.441 (ETA AQ-Radial-iFR)	49.469 ppm	1,178 cps
Mg 279.079 (ETA AQ-Radial-iFR)	48.817 ppm	3,489 cps
Si 288.158 (ETA AQ-Radial-iFR)	9.956 ppm	1,391 cps
V 292.402 (ETA AQ-Axial-iFR)	0.985 ppm	2,937 cps
Al 308.215 (ETA AQ-Radial-iFR)	49.286 ppm	4,481 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.993 ppm	23,120 cps
Ca 317.933 (ETA AQ-Radial-iFR)	49.995 ppm	13,628 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.963 ppm	3,042 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.991 ppm	3,723 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.006 ppm	3,743 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.957 ppm	9,587 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.830 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.263 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.696 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.984 ppm	35,454 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.987 ppm	21,805 cps
Na 589.592 (ETA AQ-Radial-iFR)	49.564 ppm	32,954 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.987 ppm	2,895 cps
K 766.490 (ETA AQ-Radial-iFR)	49.404 ppm	7,581 cps
Na 818.326 (ETA AQ-Radial-iFR)	48.873 ppm	901 cps

Label: IC-8122450 #: 4
Analysis Type: STD Analysis started at: 10/30/2024 9:52:33 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	50.385 ppm	1,827 cps
As 189.042 (ETA AQ-Axial-iFR)	2.017 ppm	212 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2.002 ppm	336 cps
Tl 190.856 (ETA AQ-Axial-iFR)	2.011 ppm	186 cps
Se 196.090 (ETA AQ-Axial-iFR)	2.023 ppm	180 cps
Mo 202.030 (ETA AQ-Axial-iFR)	2.011 ppm	996 cps
Zn 206.200 (ETA AQ-Axial-iFR)	2.005 ppm	1,568 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2.009 ppm	202 cps
B 208.959 (ETA AQ-Axial-iFR)	2.003 ppm	585 cps
P 213.618 (ETA AQ-Axial-iFR)	50.299 ppm	4,730 cps
Pb 220.353 (ETA AQ-Axial-iFR)	2.004 ppm	259 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.537 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.551 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	2.008 ppm	1,186 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2.012 ppm	2,466 cps
In 230.606 (ETA AQ-Axial-iFR)	107.335 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2.009 ppm	865 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.007 ppm	7,708 cps
Fe 259.940 (ETA AQ-Axial-iFR)	99.989 ppm	108,820 cps
Cr 267.716 (ETA AQ-Axial-iFR)	2.011 ppm	2,623 cps
Fe 271.441 (ETA AQ-Radial-iFR)	100.266 ppm	2,386 cps
Mg 279.079 (ETA AQ-Radial-iFR)	100.592 ppm	7,190 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Si 288.158 (ETA AQ-Radial-iFR)	20.023 ppm	2,789 cps
V 292.402 (ETA AQ-Axial-iFR)	2.007 ppm	5,988 cps
Al 308.215 (ETA AQ-Radial-iFR)	100.357 ppm	9,123 cps
Be 313.042 (ETA AQ-Radial-iFR)	2.004 ppm	46,660 cps
Ca 317.933 (ETA AQ-Radial-iFR)	100.002 ppm	27,252 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2.019 ppm	6,384 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2.005 ppm	7,553 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.997 ppm	7,436 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.022 ppm	20,250 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.542 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.113 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.459 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.008 ppm	72,349 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.006 ppm	44,320 cps
Na 589.592 (ETA AQ-Radial-iFR)	100.218 ppm	66,607 cps
Li 670.784 (ETA AQ-Radial-iFR)	2.006 ppm	5,879 cps
K 766.490 (ETA AQ-Radial-iFR)	100.298 ppm	15,388 cps
Na 818.326 (ETA AQ-Radial-iFR)	100.564 ppm	1,855 cps

Label: ICV-8122463 #: 5
Analysis Type: QC Analysis started at: 10/30/2024 10:10:43 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	18.956 ppm	101.101 %
As 189.042 (ETA AQ-Axial-iFR)	0.767 ppm	102.257 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.757 ppm	100.923 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.741 ppm	98.808 %
Se 196.090 (ETA AQ-Axial-iFR)	0.785 ppm	104.612 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.739 ppm	98.519 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.715 ppm	95.292 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.780 ppm	104.019 %
B 208.959 (ETA AQ-Axial-iFR)	0.739 ppm	98.525 %
P 213.618 (ETA AQ-Axial-iFR)	19.440 ppm	103.682 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.765 ppm	102.017 %
Y 224.306 (ETA AQ-Axial-iFR)	101.603 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.432 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.753 ppm	100.339 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.751 ppm	100.138 %
In 230.606 (ETA AQ-Axial-iFR)	102.318 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.763 ppm	101.684 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.731 ppm	97.494 %
Fe 259.940 (ETA AQ-Axial-iFR)	37.196 ppm	99.189 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.742 ppm	98.909 %
Fe 271.441 (ETA AQ-Radial-iFR)	36.604 ppm	97.611 %
Mg 279.079 (ETA AQ-Radial-iFR)	36.075 ppm	96.201 %
Si 288.158 (ETA AQ-Radial-iFR)	7.552 ppm	100.690 %
V 292.402 (ETA AQ-Axial-iFR)	0.747 ppm	99.613 %
Al 308.215 (ETA AQ-Radial-iFR)	36.984 ppm	98.624 %
Be 313.042 (ETA AQ-Radial-iFR)	0.740 ppm	98.637 %
Ca 317.933 (ETA AQ-Radial-iFR)	38.061 ppm	101.496 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.725 ppm	96.612 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.721 ppm	96.110 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.785 ppm	104.710 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.724 ppm	96.585 %
Y 360.073 (ETA AQ-Axial-iFR)	101.954 %	

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Y 360.073 (ETA AQ-Radial-iFR)	99.032 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.863 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.743 ppm	99.014 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.754 ppm	100.526 %
Na 589.592 (ETA AQ-Radial-iFR)	37.873 ppm	100.994 %
Li 670.784 (ETA AQ-Radial-iFR)	0.748 ppm	99.669 %
K 766.490 (ETA AQ-Radial-iFR)	37.524 ppm	100.063 %
Na 818.326 (ETA AQ-Radial-iFR)	36.187 ppm	96.499 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	689 cps
As 189.042 (ETA AQ-Axial-iFR)	80 cps
Sn 189.989 (ETA AQ-Axial-iFR)	127 cps
Tl 190.856 (ETA AQ-Axial-iFR)	67 cps
Se 196.090 (ETA AQ-Axial-iFR)	70 cps
Mo 202.030 (ETA AQ-Axial-iFR)	366 cps
Zn 206.200 (ETA AQ-Axial-iFR)	559 cps
Sb 206.833 (ETA AQ-Axial-iFR)	79 cps
B 208.959 (ETA AQ-Axial-iFR)	217 cps
P 213.618 (ETA AQ-Axial-iFR)	1,826 cps
Pb 220.353 (ETA AQ-Axial-iFR)	99 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	444 cps
Cd 228.802 (ETA AQ-Axial-iFR)	922 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	328 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2,808 cps
Fe 259.940 (ETA AQ-Axial-iFR)	40,483 cps
Cr 267.716 (ETA AQ-Axial-iFR)	968 cps
Fe 271.441 (ETA AQ-Radial-iFR)	872 cps
Mg 279.079 (ETA AQ-Radial-iFR)	2,579 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,057 cps
V 292.402 (ETA AQ-Axial-iFR)	2,227 cps
Al 308.215 (ETA AQ-Radial-iFR)	3,363 cps
Be 313.042 (ETA AQ-Radial-iFR)	17,226 cps
Ca 317.933 (ETA AQ-Radial-iFR)	10,377 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2,289 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,703 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,921 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7,259 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	26,752 cps
Ba 455.403 (ETA AQ-Radial-iFR)	16,654 cps
Na 589.592 (ETA AQ-Radial-iFR)	25,186 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,193 cps
K 766.490 (ETA AQ-Radial-iFR)	5,759 cps
Na 818.326 (ETA AQ-Radial-iFR)	667 cps

Label: ICB-8122474 #: 6
Analysis Type: QC Analysis started at: 10/30/2024 10:17:04 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.010 ppm	-4.838 %
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-2.386 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-12.267 %
Tl 190.856 (ETA AQ-Axial-iFR)	-0.001 ppm	-6.619 %
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	19.936 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-9.630 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	4.430 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	-0.614 %
B 208.959 (ETA AQ-Axial-iFR)	0.000 ppm	-0.021 %
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	14.639 %
Y 224.306 (ETA AQ-Axial-iFR)	100.622 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.925 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-10.817 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-3.265 %
In 230.606 (ETA AQ-Axial-iFR)	100.751 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0.272 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.008 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	0.015 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	10.277 %
Fe 271.441 (ETA AQ-Radial-iFR)	-0.009 ppm	-17.866 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.631 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.022 ppm	-4.341 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.037 %
Al 308.215 (ETA AQ-Radial-iFR)	0.001 ppm	0.271 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-0.534 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.141 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	0.441 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-6.416 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	6.499 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.004 %
Y 360.073 (ETA AQ-Axial-iFR)	99.849 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.916 %	
Y 377.433 (ETA AQ-Radial-iFR)	100.074 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.884 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2.526 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.009 ppm	-0.885 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-0.226 %
K 766.490 (ETA AQ-Radial-iFR)	-0.021 ppm	-4.147 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.154 ppm	-15.366 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	1 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	3 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	4 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	18 cps
Li 670.784 (ETA AQ-Radial-iFR)	3 cps
K 766.490 (ETA AQ-Radial-iFR)	0 cps
Na 818.326 (ETA AQ-Radial-iFR)	-4 cps

Label: ICVL-8122384 #: 7
Analysis Type: QC Analysis started at: 10/30/2024 10:19:04 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.191 ppm	95.392 %
As 189.042 (ETA AQ-Axial-iFR)	0.017 ppm	113.801 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	104.088 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.022 ppm	109.844 %
Se 196.090 (ETA AQ-Axial-iFR)	0.024 ppm	95.012 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.010 ppm	100.647 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	110.379 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.020 ppm	98.996 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	102.203 %
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.011 ppm	114.953 %
Y 224.306 (ETA AQ-Axial-iFR)	100.248 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.549 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	99.202 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	99.297 %
In 230.606 (ETA AQ-Axial-iFR)	100.839 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	109.193 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	99.672 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.059 ppm	118.837 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	106.479 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.062 ppm	124.117 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.212 ppm	105.998 %
Si 288.158 (ETA AQ-Radial-iFR)	0.474 ppm	94.771 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	96.701 %
Al 308.215 (ETA AQ-Radial-iFR)	0.208 ppm	104.190 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	103.316 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ca 317.933 (ETA AQ-Radial-iFR)	0.521 ppm	104.245 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.010 ppm	97.700 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	100.174 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	116.191 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	96.165 %
Y 360.073 (ETA AQ-Axial-iFR)	99.870 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.961 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.938 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	99.463 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	110.755 %
Na 589.592 (ETA AQ-Radial-iFR)	1.059 ppm	105.887 %
Li 670.784 (ETA AQ-Radial-iFR)	0.032 ppm	105.444 %
K 766.490 (ETA AQ-Radial-iFR)	0.509 ppm	101.723 %
Na 818.326 (ETA AQ-Radial-iFR)	0.845 ppm	84.458 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	5 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	2 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	67 cps
Cr 267.716 (ETA AQ-Axial-iFR)	6 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	15 cps
Si 288.158 (ETA AQ-Radial-iFR)	73 cps
V 292.402 (ETA AQ-Axial-iFR)	13 cps
Al 308.215 (ETA AQ-Radial-iFR)	20 cps
Be 313.042 (ETA AQ-Radial-iFR)	45 cps
Ca 317.933 (ETA AQ-Radial-iFR)	150 cps
Cu 327.396 (ETA AQ-Axial-iFR)	28 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3 cps
Ti 334.904 (ETA AQ-Axial-iFR)	17 cps
Ti 334.941 (ETA AQ-Axial-iFR)	54 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	172 cps
Ba 455.403 (ETA AQ-Radial-iFR)	50 cps
Na 589.592 (ETA AQ-Radial-iFR)	728 cps
Li 670.784 (ETA AQ-Radial-iFR)	96 cps
K 766.490 (ETA AQ-Radial-iFR)	81 cps
Na 818.326 (ETA AQ-Radial-iFR)	15 cps

Basic Sample Report
10/31/2024 7:39:06 AM

Label: ICSA-8095256 #: 8
Analysis Type: QC Analysis started at: 10/30/2024 10:28:03 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.000 ppm	4 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.007 ppm	-2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.010 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.014 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
P 213.618 (ETA AQ-Axial-iFR)	0.048 ppm	2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.549 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.272 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	99.255 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.002 ppm	6 cps
Fe 259.940 (ETA AQ-Axial-iFR)	174.994 ppm	190,443 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	188.714 ppm	4,484 cps
Mg 279.079 (ETA AQ-Radial-iFR)	508.712 ppm	36,364 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.048 ppm	1 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.006 ppm	-19 cps
Al 308.215 (ETA AQ-Radial-iFR)	493.945 ppm	44,897 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Ca 317.933 (ETA AQ-Radial-iFR)	469.764 ppm	127,936 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.002 ppm	-13 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.001 ppm	-8 cps
Y 360.073 (ETA AQ-Axial-iFR)	99.253 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.906 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.479 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.004 ppm	146 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	55 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.136 ppm	114 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.004 ppm	14 cps
K 766.490 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.021 ppm	-1 cps

Label: ICSAB-8096364 #: 9
Analysis Type: QC Analysis started at: 10/30/2024 10:30:03 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.003 ppm	4 cps
As 189.042 (ETA AQ-Axial-iFR)	0.484 ppm	50 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.483 ppm	81 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.505 ppm	45 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.480 ppm	43 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mo 202.030 (ETA AQ-Axial-iFR)	0.470 ppm	233 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.450 ppm	352 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.473 ppm	49 cps
B 208.959 (ETA AQ-Axial-iFR)	4.983 ppm	1,419 cps
P 213.618 (ETA AQ-Axial-iFR)	4.924 ppm	460 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.490 ppm	63 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.228 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.525 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.486 ppm	286 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.499 ppm	613 cps
In 230.606 (ETA AQ-Axial-iFR)	101.904 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.490 ppm	210 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.465 ppm	1,784 cps
Fe 259.940 (ETA AQ-Axial-iFR)	171.296 ppm	186,422 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.476 ppm	621 cps
Fe 271.441 (ETA AQ-Radial-iFR)	188.196 ppm	4,472 cps
Mg 279.079 (ETA AQ-Radial-iFR)	506.339 ppm	36,195 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.616 ppm	649 cps
V 292.402 (ETA AQ-Axial-iFR)	0.477 ppm	1,421 cps
Al 308.215 (ETA AQ-Radial-iFR)	491.448 ppm	44,670 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.248 ppm	5,761 cps
Ca 317.933 (ETA AQ-Radial-iFR)	466.754 ppm	127,118 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.535 ppm	1,689 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.499 ppm	1,867 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.500 ppm	1,858 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.501 ppm	5,027 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.126 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.658 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.205 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.504 ppm	18,166 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.500 ppm	11,042 cps
Na 589.592 (ETA AQ-Radial-iFR)	5.341 ppm	3,572 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.004 ppm	15 cps
K 766.490 (ETA AQ-Radial-iFR)	5.087 ppm	778 cps
Na 818.326 (ETA AQ-Radial-iFR)	5.075 ppm	93 cps

Label: ICEX1 #: 10
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 10:31:56 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.021 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	>4.867	512 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.007 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.009 ppm	4 cps
P 213.618 (ETA AQ-Axial-iFR)	0.190 ppm	15 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.985 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.846 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	16 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
In 230.606 (ETA AQ-Axial-iFR)	100.059 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.009 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.002 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.021 ppm	4 cps
V 292.402 (ETA AQ-Axial-iFR)	5.319 ppm	15,869 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.062 ppm	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	33 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	>23.429	74,175 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.003 ppm	-38 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	99.694 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.886 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.997 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-8 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.023 ppm	9 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.019 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.174 ppm	-4 cps

Label: ICEX2 #: 11
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 10:33:50 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.025 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	>19.298	1,799 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.012 ppm	-1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.011 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.009 ppm	-1 cps
Y 224.306 (ETA AQ-Axial-iFR)	103.488 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.330 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-0.002 ppm	17 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	105.322 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.006 ppm	2 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.020 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	>48.213	6,784 cps
V 292.402 (ETA AQ-Axial-iFR)	0.011 ppm	31 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.020 ppm	3 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.005 ppm	6 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	>20.421	76,018 cps
Ti 334.941 (ETA AQ-Axial-iFR)	18.272 ppm	182,978 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.214 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.382 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.597 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-10 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	6 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.026 ppm	7 cps
Li 670.784 (ETA AQ-Radial-iFR)	>10.061	29,466 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.019 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.226 ppm	-5 cps

Label: ICEX3 #: 12
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 10:35:43 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	>98.923	3,583 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.011 ppm	2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	4 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.013 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.065 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.209 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	101.313 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	>52.098	199,131 cps
Fe 259.940 (ETA AQ-Axial-iFR)	<-0.013	-12 cps
Cr 267.716 (ETA AQ-Axial-iFR)	-0.001 ppm	7 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.026 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.126 ppm	-9 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.009 ppm	6 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.003 ppm	-12 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.016 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.008 ppm	10 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.004 ppm	-4 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	10 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	33 cps
Y 360.073 (ETA AQ-Axial-iFR)	99.833 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.044 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.116 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.011 ppm	17 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.017 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.175 ppm	-4 cps

Label: ICEX4 #: 13
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 10:37:36 AM

Amount: Final Quantity: Standard DF: 1

Label: ICEX5 #: 14
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 10:39:30 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.021 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.002 ppm	-2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	>4.877	2,415 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	-0.017 ppm	32 cps
P 213.618 (ETA AQ-Axial-iFR)	0.010 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.629 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.477 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.733 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.004 ppm	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.009 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.008 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.171 ppm	31 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.027 ppm	-84 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.074 ppm	8 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-8 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-9 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	13 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	13 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.582 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.072 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	101.140 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-8 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.004 ppm	22 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
K 766.490 (ETA AQ-Radial-iFR)	-0.027 ppm	-1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.220 ppm	-5 cps

Label: CCV-8122457 #: 15
Analysis Type: QC Analysis started at: 10/30/2024 10:41:23 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.191 ppm	96.766 %
As 189.042 (ETA AQ-Axial-iFR)	0.942 ppm	94.189 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.989 ppm	98.936 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.960 ppm	95.953 %
Se 196.090 (ETA AQ-Axial-iFR)	0.948 ppm	94.766 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.959 ppm	95.887 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.989 ppm	98.874 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.975 ppm	97.458 %
B 208.959 (ETA AQ-Axial-iFR)	0.992 ppm	99.209 %
P 213.618 (ETA AQ-Axial-iFR)	24.414 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.973 ppm	97.304 %
Y 224.306 (ETA AQ-Axial-iFR)	103.895 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.838 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.981 ppm	98.125 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.963 ppm	96.325 %
In 230.606 (ETA AQ-Axial-iFR)	106.074 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.974 ppm	97.397 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.974 ppm	97.390 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.638 ppm	99.276 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.973 ppm	97.267 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.762 ppm	97.524 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.584 ppm	97.169 %
Si 288.158 (ETA AQ-Radial-iFR)	9.535 ppm	95.345 %
V 292.402 (ETA AQ-Axial-iFR)	0.973 ppm	97.252 %
Al 308.215 (ETA AQ-Radial-iFR)	48.993 ppm	97.985 %
Be 313.042 (ETA AQ-Radial-iFR)	0.968 ppm	96.761 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.837 ppm	99.674 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.965 ppm	96.464 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.970 ppm	97.008 %
Ti 334.904 (ETA AQ-Axial-iFR)	1.008 ppm	100.770 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.950 ppm	95.033 %
Y 360.073 (ETA AQ-Axial-iFR)	104.978 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.165 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.219 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.965 ppm	96.536 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.980 ppm	98.003 %
Na 589.592 (ETA AQ-Radial-iFR)	49.783 ppm	99.565 %
Li 670.784 (ETA AQ-Radial-iFR)	0.988 ppm	98.751 %
K 766.490 (ETA AQ-Radial-iFR)	49.634 ppm	99.267 %
Na 818.326 (ETA AQ-Radial-iFR)	47.986 ppm	95.972 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	879 cps
As 189.042 (ETA AQ-Axial-iFR)	98 cps
Sn 189.989 (ETA AQ-Axial-iFR)	166 cps
Tl 190.856 (ETA AQ-Axial-iFR)	88 cps
Se 196.090 (ETA AQ-Axial-iFR)	85 cps
Mo 202.030 (ETA AQ-Axial-iFR)	475 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Zn 206.200 (ETA AQ-Axial-iFR)	773 cps
Sb 206.833 (ETA AQ-Axial-iFR)	98 cps
B 208.959 (ETA AQ-Axial-iFR)	290 cps
P 213.618 (ETA AQ-Axial-iFR)	2,294 cps
Pb 220.353 (ETA AQ-Axial-iFR)	126 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	579 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,182 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	419 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,739 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,023 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,269 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,161 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,473 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,332 cps
V 292.402 (ETA AQ-Axial-iFR)	2,900 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,454 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,533 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,585 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,049 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,645 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,750 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,522 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,779 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,648 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,099 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,895 cps
K 766.490 (ETA AQ-Radial-iFR)	7,617 cps
Na 818.326 (ETA AQ-Radial-iFR)	885 cps

Label: CCB-8122474 #: 16
Analysis Type: QC Analysis started at: 10/30/2024 10:43:18 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.015 ppm	-7.297 %
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	1.527 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	-4.117 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	13.910 %
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	5.906 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-5.723 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-1.596 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	-2.463 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	8.626 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-2.727 %
Y 224.306 (ETA AQ-Axial-iFR)	103.431 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.380 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-9.669 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-0.568 %
In 230.606 (ETA AQ-Axial-iFR)	104.195 %	

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	1.996 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.001 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.151 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	3.293 %
Fe 271.441 (ETA AQ-Radial-iFR)	-0.005 ppm	-9.376 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.003 ppm	1.612 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.017 ppm	-3.304 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.028 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.007 ppm	-3.599 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-0.851 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.004 ppm	-0.813 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	2.592 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-1.924 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	12.687 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.012 %
Y 360.073 (ETA AQ-Axial-iFR)	103.533 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.504 %	
Y 377.433 (ETA AQ-Radial-iFR)	100.259 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.139 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	5.726 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.015 ppm	-1.457 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	1.604 %
K 766.490 (ETA AQ-Radial-iFR)	-0.010 ppm	-2.053 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.245 ppm	-24.516 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	14 cps
Li 670.784 (ETA AQ-Radial-iFR)	5 cps
K 766.490 (ETA AQ-Radial-iFR)	2 cps
Na 818.326 (ETA AQ-Radial-iFR)	-6 cps

Label: CCVL-8122384 #: 17
Analysis Type: QC Analysis started at: 10/30/2024 10:45:12 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.174 ppm	86.766 %
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	104.511 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.009 ppm	94.446 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.022 ppm	107.858 %
Se 196.090 (ETA AQ-Axial-iFR)	0.024 ppm	94.050 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	86.895 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	105.416 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.020 ppm	100.854 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	97.523 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.008 ppm	81.294 %
Y 224.306 (ETA AQ-Axial-iFR)	104.143 %	
Y 224.306 (ETA AQ-Radial-iFR)	101.112 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	96.176 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	79.723 %
In 230.606 (ETA AQ-Axial-iFR)	104.714 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	108.703 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	91.808 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.057 ppm	113.770 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	103.632 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.063 ppm	125.869 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.182 ppm	90.903 %
Si 288.158 (ETA AQ-Radial-iFR)	0.437 ppm	87.383 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	89.110 %
Al 308.215 (ETA AQ-Radial-iFR)	0.189 ppm	94.441 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	98.078 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.489 ppm	97.715 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.010 ppm	95.399 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	95.705 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	113.700 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	91.928 %
Y 360.073 (ETA AQ-Axial-iFR)	104.348 %	
Y 360.073 (ETA AQ-Radial-iFR)	100.541 %	
Y 377.433 (ETA AQ-Radial-iFR)	100.931 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	94.310 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	106.041 %
Na 589.592 (ETA AQ-Radial-iFR)	0.995 ppm	99.502 %
Li 670.784 (ETA AQ-Radial-iFR)	0.030 ppm	99.346 %
K 766.490 (ETA AQ-Radial-iFR)	0.468 ppm	93.570 %
Na 818.326 (ETA AQ-Radial-iFR)	0.707 ppm	70.688 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	10 cps
Fe 259.940 (ETA AQ-Axial-iFR)	64 cps
Cr 267.716 (ETA AQ-Axial-iFR)	6 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	13 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	43 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	17 cps
Ti 334.941 (ETA AQ-Axial-iFR)	51 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	163 cps
Ba 455.403 (ETA AQ-Radial-iFR)	48 cps
Na 589.592 (ETA AQ-Radial-iFR)	685 cps
Li 670.784 (ETA AQ-Radial-iFR)	91 cps
K 766.490 (ETA AQ-Radial-iFR)	75 cps
Na 818.326 (ETA AQ-Radial-iFR)	12 cps

Label: LRC-8136335 #: 18
Analysis Type: QC Analysis started at: 10/30/2024 10:47:48 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	78.759 ppm	105.012 %
As 189.042 (ETA AQ-Axial-iFR)	4.918 ppm	98.352 %
Sn 189.989 (ETA AQ-Axial-iFR)	4.127 ppm	103.176 %
Tl 190.856 (ETA AQ-Axial-iFR)	20.485 ppm	102.425 %
Se 196.090 (ETA AQ-Axial-iFR)	39.102 ppm	97.756 %
Mo 202.030 (ETA AQ-Axial-iFR)	1.152 ppm	11.519 %
Zn 206.200 (ETA AQ-Axial-iFR)	16.861 ppm	84.306 %
Sb 206.833 (ETA AQ-Axial-iFR)	4.923 ppm	98.454 %
B 208.959 (ETA AQ-Axial-iFR)	25.211 ppm	100.844 %
P 213.618 (ETA AQ-Axial-iFR)	0.032 ppm	0.000 %

Basic Sample Report
10/31/2024 7:39:06 AM

QTEGRA

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Pb 220.353 (ETA AQ-Axial-iFR)	41.939 ppm	104.848 %
Y 224.306 (ETA AQ-Axial-iFR)	94.287 %	
Y 224.306 (ETA AQ-Radial-iFR)	87.604 %	
Co 228.616 (ETA AQ-Axial-iFR)	20.691 ppm	103.453 %
Cd 228.802 (ETA AQ-Axial-iFR)	5.129 ppm	102.584 %
In 230.606 (ETA AQ-Axial-iFR)	90.303 %	
Ni 231.604 (ETA AQ-Axial-iFR)	10.020 ppm	100.198 %
Mn 257.610 (ETA AQ-Radial-iFR)	37.224 ppm	93.060 %
Fe 259.940 (ETA AQ-Axial-iFR)	364.246 ppm	60.708 %
Cr 267.716 (ETA AQ-Axial-iFR)	9.075 ppm	90.746 %
Fe 271.441 (ETA AQ-Radial-iFR)	565.569 ppm	94.261 %
Mg 279.079 (ETA AQ-Radial-iFR)	390.645 ppm	97.661 %
Si 288.158 (ETA AQ-Radial-iFR)	48.076 ppm	96.152 %
V 292.402 (ETA AQ-Axial-iFR)	4.754 ppm	95.088 %
Al 308.215 (ETA AQ-Radial-iFR)	613.378 ppm	102.230 %
Be 313.042 (ETA AQ-Radial-iFR)	22.789 ppm	91.157 %
Ca 317.933 (ETA AQ-Radial-iFR)	643.351 ppm	91.907 %
Cu 327.396 (ETA AQ-Axial-iFR)	9.194 ppm	114.926 %
Ag 328.068 (ETA AQ-Axial-iFR)	2.510 ppm	83.670 %
Ti 334.904 (ETA AQ-Axial-iFR)	19.348 ppm	96.741 %
Ti 334.941 (ETA AQ-Axial-iFR)	19.214 ppm	96.070 %
Y 360.073 (ETA AQ-Axial-iFR)	99.881 %	
Y 360.073 (ETA AQ-Radial-iFR)	91.147 %	
Y 377.433 (ETA AQ-Radial-iFR)	91.004 %	
Sr 407.771 (ETA AQ-Radial-iFR)	9.546 ppm	95.459 %
Ba 455.403 (ETA AQ-Radial-iFR)	19.848 ppm	99.241 %
Na 589.592 (ETA AQ-Radial-iFR)	777.667 ppm	97.208 %
Li 670.784 (ETA AQ-Radial-iFR)	42.378 ppm	105.945 %
K 766.490 (ETA AQ-Radial-iFR)	525.132 ppm	105.026 %
Na 818.326 (ETA AQ-Radial-iFR)	837.002 ppm	104.625 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	2,855 cps
As 189.042 (ETA AQ-Axial-iFR)	518 cps
Sn 189.989 (ETA AQ-Axial-iFR)	693 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1,917 cps
Se 196.090 (ETA AQ-Axial-iFR)	3,470 cps
Mo 202.030 (ETA AQ-Axial-iFR)	570 cps
Zn 206.200 (ETA AQ-Axial-iFR)	13,177 cps
Sb 206.833 (ETA AQ-Axial-iFR)	497 cps
B 208.959 (ETA AQ-Axial-iFR)	7,171 cps
P 213.618 (ETA AQ-Axial-iFR)	**0 cps**
Pb 220.353 (ETA AQ-Axial-iFR)	5,433 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	12,231 cps
Cd 228.802 (ETA AQ-Axial-iFR)	6,286 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4,316 cps
Mn 257.610 (ETA AQ-Radial-iFR)	142,627 cps
Fe 259.940 (ETA AQ-Axial-iFR)	396,413 cps
Cr 267.716 (ETA AQ-Axial-iFR)	11,840 cps
Fe 271.441 (ETA AQ-Radial-iFR)	13,470 cps
Mg 279.079 (ETA AQ-Radial-iFR)	27,924 cps
Si 288.158 (ETA AQ-Radial-iFR)	6,760 cps
V 292.402 (ETA AQ-Axial-iFR)	14,184 cps
Al 308.215 (ETA AQ-Radial-iFR)	55,752 cps
Be 313.042 (ETA AQ-Radial-iFR)	530,759 cps

Basic Sample Report
10/31/2024 7:39:06 AM

QTEGRA

Analyte (Measure Mode)	IS Corrected Intensity Average
Ca 317.933 (ETA AQ-Radial-iFR)	175,342 cps
Cu 327.396 (ETA AQ-Axial-iFR)	29,103 cps
Ag 328.068 (ETA AQ-Axial-iFR)	9,450 cps
Ti 334.904 (ETA AQ-Axial-iFR)	72,026 cps
Ti 334.941 (ETA AQ-Axial-iFR)	192,414 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	343,975 cps
Ba 455.403 (ETA AQ-Radial-iFR)	438,425 cps
Na 589.592 (ETA AQ-Radial-iFR)	516,693 cps
Li 670.784 (ETA AQ-Radial-iFR)	124,109 cps
K 766.490 (ETA AQ-Radial-iFR)	80,551 cps
Na 818.326 (ETA AQ-Radial-iFR)	15,446 cps

Label: ICEX4 #: 19
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 11:09:12 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.062 ppm	6 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.009 ppm	-2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.015 ppm	5 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.006 ppm	-4 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	5 cps
B 208.959 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.025 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.160 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	>20.617	12,169 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	101.473 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	>10.445	4,499 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	>10.064	13,125 cps
Fe 271.441 (ETA AQ-Radial-iFR)	<-0.184	32 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.017 ppm	-1 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.016 ppm	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.017 ppm	-53 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.005 ppm	12 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.003 ppm	8 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	36 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.253 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.251 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.778 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	12 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 589.592 (ETA AQ-Radial-iFR)	-0.014 ppm	15 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.017 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.222 ppm	-5 cps

Label: Rinse Blank #: 20
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 1:58:35 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.014 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.203 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.320 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	99.518 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.004 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.003 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.019 ppm	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.001 ppm	-4 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.008 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.403 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.025 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.118 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.012 ppm	16 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
K 766.490 (ETA AQ-Radial-iFR)	0.001 ppm	4 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.183 ppm	-4 cps

Label: CCV-8122457 #: 21
Analysis Type: QC Analysis started at: 10/30/2024 2:00:33 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.395 ppm	97.581 %
As 189.042 (ETA AQ-Axial-iFR)	0.928 ppm	92.769 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.967 ppm	96.691 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.935 ppm	93.520 %
Se 196.090 (ETA AQ-Axial-iFR)	0.934 ppm	93.351 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.942 ppm	94.182 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.000 ppm	100.038 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.958 ppm	95.774 %
B 208.959 (ETA AQ-Axial-iFR)	0.982 ppm	98.171 %
P 213.618 (ETA AQ-Axial-iFR)	24.755 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.956 ppm	95.620 %
Y 224.306 (ETA AQ-Axial-iFR)	104.456 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.256 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.968 ppm	96.850 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.961 ppm	96.060 %
In 230.606 (ETA AQ-Axial-iFR)	107.918 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.963 ppm	96.297 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.955 ppm	95.517 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.398 ppm	100.795 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.985 ppm	98.514 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.286 ppm	96.571 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.469 ppm	96.938 %
Si 288.158 (ETA AQ-Radial-iFR)	9.462 ppm	94.618 %
V 292.402 (ETA AQ-Axial-iFR)	0.971 ppm	97.136 %
Al 308.215 (ETA AQ-Radial-iFR)	48.767 ppm	97.535 %
Be 313.042 (ETA AQ-Radial-iFR)	0.961 ppm	96.074 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.778 ppm	99.557 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.955 ppm	95.546 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.967 ppm	96.654 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.990 ppm	98.990 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.963 ppm	96.326 %
Y 360.073 (ETA AQ-Axial-iFR)	104.534 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.048 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.488 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.958 ppm	95.849 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.981 ppm	98.077 %
Na 589.592 (ETA AQ-Radial-iFR)	50.172 ppm	100.344 %
Li 670.784 (ETA AQ-Radial-iFR)	0.992 ppm	99.180 %
K 766.490 (ETA AQ-Radial-iFR)	50.004 ppm	100.008 %
Na 818.326 (ETA AQ-Radial-iFR)	47.689 ppm	95.377 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	886 cps
As 189.042 (ETA AQ-Axial-iFR)	97 cps
Sn 189.989 (ETA AQ-Axial-iFR)	162 cps
Tl 190.856 (ETA AQ-Axial-iFR)	86 cps
Se 196.090 (ETA AQ-Axial-iFR)	83 cps
Mo 202.030 (ETA AQ-Axial-iFR)	466 cps
Zn 206.200 (ETA AQ-Axial-iFR)	782 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	287 cps
P 213.618 (ETA AQ-Axial-iFR)	2,326 cps
Pb 220.353 (ETA AQ-Axial-iFR)	124 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	572 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,178 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	414 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,668 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,850 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,285 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,149 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,465 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,322 cps
V 292.402 (ETA AQ-Axial-iFR)	2,896 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,434 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,373 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,569 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,020 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,631 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,684 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,652 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,532 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,665 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,358 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,908 cps
K 766.490 (ETA AQ-Radial-iFR)	7,673 cps
Na 818.326 (ETA AQ-Radial-iFR)	879 cps

Label: CCB-8122474 #: 22
Analysis Type: QC Analysis started at: 10/30/2024 2:02:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.022 ppm	-10.928 %
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-0.233 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	-3.188 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	9.058 %
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	15.796 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-7.446 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.213 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	-2.208 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	10.685 %
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-2.834 %
Y 224.306 (ETA AQ-Axial-iFR)	101.767 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.052 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-4.405 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-8.513 %
In 230.606 (ETA AQ-Axial-iFR)	103.257 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-0.039 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.000 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.245 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	4.826 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.012 ppm	23.306 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.004 ppm	2.000 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.016 ppm	-3.129 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.033 %
Al 308.215 (ETA AQ-Radial-iFR)	0.000 ppm	-0.087 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-0.264 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.293 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	5.920 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	1.130 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	11.683 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.013 %
Y 360.073 (ETA AQ-Axial-iFR)	101.696 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.397 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.847 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.671 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	7.130 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.014 ppm	-1.424 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-1.141 %
K 766.490 (ETA AQ-Radial-iFR)	0.009 ppm	1.864 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.229 ppm	-22.922 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-8 cps
Ba 455.403 (ETA AQ-Radial-iFR)	4 cps
Na 589.592 (ETA AQ-Radial-iFR)	15 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	5 cps
Na 818.326 (ETA AQ-Radial-iFR)	-5 cps

Basic Sample Report
10/31/2024 7:39:06 AM

QTEGRA

Label: CCVL-8122384 #: 23
Analysis Type: QC Analysis started at: 10/30/2024 2:04:21 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.167 ppm	83.513 %
As 189.042 (ETA AQ-Axial-iFR)	0.014 ppm	95.580 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	102.013 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.018 ppm	87.961 %
Se 196.090 (ETA AQ-Axial-iFR)	0.023 ppm	93.299 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.382 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	104.509 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.017 ppm	86.331 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	98.398 %
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.010 ppm	102.617 %
Y 224.306 (ETA AQ-Axial-iFR)	103.982 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.060 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	93.749 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	93.232 %
In 230.606 (ETA AQ-Axial-iFR)	104.520 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	106.968 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	92.401 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.056 ppm	112.973 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	105.958 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.054 ppm	108.198 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.194 ppm	97.242 %
Si 288.158 (ETA AQ-Radial-iFR)	0.442 ppm	88.358 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	89.044 %
Al 308.215 (ETA AQ-Radial-iFR)	0.184 ppm	91.753 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	95.839 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.489 ppm	97.729 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	94.882 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	93.742 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	110.505 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	89.479 %
Y 360.073 (ETA AQ-Axial-iFR)	103.497 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.563 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.885 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	93.483 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	103.266 %
Na 589.592 (ETA AQ-Radial-iFR)	0.979 ppm	97.942 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	97.094 %
K 766.490 (ETA AQ-Radial-iFR)	0.476 ppm	95.204 %
Na 818.326 (ETA AQ-Radial-iFR)	0.740 ppm	74.045 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	10 cps
Fe 259.940 (ETA AQ-Axial-iFR)	64 cps
Cr 267.716 (ETA AQ-Axial-iFR)	6 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	42 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	161 cps
Ba 455.403 (ETA AQ-Radial-iFR)	46 cps
Na 589.592 (ETA AQ-Radial-iFR)	675 cps
Li 670.784 (ETA AQ-Radial-iFR)	89 cps
K 766.490 (ETA AQ-Radial-iFR)	76 cps
Na 818.326 (ETA AQ-Radial-iFR)	13 cps

Label: MB 480-730243/1-A #: 24
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:09:50 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.037 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.046 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.006 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.043 ppm	1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	105.418 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	104.033 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	106.793 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.026 ppm	30 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Cr 267.716 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.018 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.006 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.167 ppm	30 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.019 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.025 ppm	14 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
Y 360.073 (ETA AQ-Axial-iFR)	106.617 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	103.749 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	104.103 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-8 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	5 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.007 ppm	20 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
K 766.490 (ETA AQ-Radial-iFR)	0.026 ppm	7 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.226 ppm	-5 cps

Label: LCSSRM 480-730243/2-A #: 25
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:11:44 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.296 ppm	14 cps
As 189.042 (ETA AQ-Axial-iFR)	2.507 ppm	263 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.703 ppm	118 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.894 ppm	175 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.258 ppm	112 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1.171 ppm	580 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.482 ppm	1,157 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.930 ppm	94 cps
B 208.959 (ETA AQ-Axial-iFR)	2.014 ppm	582 cps
P 213.618 (ETA AQ-Axial-iFR)	1.947 ppm	180 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.856 ppm	111 cps
Y 224.306 (ETA AQ-Axial-iFR)	121.464 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	111.421 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.768 ppm	455 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1.811 ppm	2,222 cps
In 230.606 (ETA AQ-Axial-iFR)	114.887 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2.998 ppm	1,291 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.477 ppm	17,157 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62.308 ppm	67,815 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1.599 ppm	2,086 cps
Fe 271.441 (ETA AQ-Radial-iFR)	59.702 ppm	1,420 cps
Mg 279.079 (ETA AQ-Radial-iFR)	15.152 ppm	1,083 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.258 ppm	1,029 cps
V 292.402 (ETA AQ-Axial-iFR)	0.930 ppm	2,772 cps
Al 308.215 (ETA AQ-Radial-iFR)	71.823 ppm	6,529 cps
Be 313.042 (ETA AQ-Radial-iFR)	1.439 ppm	33,506 cps
Ca 317.933 (ETA AQ-Radial-iFR)	44.831 ppm	12,225 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1.714 ppm	5,422 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.668 ppm	2,501 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ti 334.904 (ETA AQ-Axial-iFR)	3.404 ppm	12,673 cps
Ti 334.941 (ETA AQ-Axial-iFR)	3.406 ppm	34,114 cps
Y 360.073 (ETA AQ-Axial-iFR)	120.799 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	112.309 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	112.418 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.134 ppm	40,839 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.568 ppm	56,718 cps
Na 589.592 (ETA AQ-Radial-iFR)	4.384 ppm	2,937 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.172 ppm	3,435 cps
K 766.490 (ETA AQ-Radial-iFR)	13.818 ppm	2,122 cps
Na 818.326 (ETA AQ-Radial-iFR)	3.951 ppm	72 cps

Label: 480-224888-B-12-E #: 26
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:13:37 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	46.539 ppm	1,688 cps
As 189.042 (ETA AQ-Axial-iFR)	0.036 ppm	3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.047 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.010 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.007 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.278 ppm	997 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.283 ppm	82 cps
P 213.618 (ETA AQ-Axial-iFR)	1.014 ppm	93 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.160 ppm	21 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.172 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.546 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.018 ppm	10 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.006 ppm	8 cps
In 230.606 (ETA AQ-Axial-iFR)	91.862 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.044 ppm	18 cps
Mn 257.610 (ETA AQ-Radial-iFR)	5.801 ppm	22,176 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62.921 ppm	68,471 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.045 ppm	60 cps
Fe 271.441 (ETA AQ-Radial-iFR)	60.990 ppm	1,451 cps
Mg 279.079 (ETA AQ-Radial-iFR)	685.334 ppm	48,990 cps
Si 288.158 (ETA AQ-Radial-iFR)	23.677 ppm	3,288 cps
V 292.402 (ETA AQ-Axial-iFR)	0.055 ppm	162 cps
Al 308.215 (ETA AQ-Radial-iFR)	42.997 ppm	3,909 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	43 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,517.889 ppm	413,366 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.038 ppm	118 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.546 ppm	2,030 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.497 ppm	4,987 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.918 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.631 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.931 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.073 ppm	38,665 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.100 ppm	2,217 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.886 ppm	2,606 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.088 ppm	261 cps
K 766.490 (ETA AQ-Radial-iFR)	25.691 ppm	3,944 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 818.326 (ETA AQ-Radial-iFR)	3.373 ppm	61 cps

Label: 480-224888-B-12-ESD@5 #: 27
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:15:31 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10.251 ppm	374 cps
As 189.042 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.009 ppm	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.326 ppm	255 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.063 ppm	19 cps
P 213.618 (ETA AQ-Axial-iFR)	0.234 ppm	19 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.034 ppm	4 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.812 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.207 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	101.424 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.364 ppm	5,214 cps
Fe 259.940 (ETA AQ-Axial-iFR)	15.327 ppm	16,680 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.011 ppm	15 cps
Fe 271.441 (ETA AQ-Radial-iFR)	14.382 ppm	343 cps
Mg 279.079 (ETA AQ-Radial-iFR)	153.205 ppm	10,951 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.720 ppm	800 cps
V 292.402 (ETA AQ-Axial-iFR)	0.013 ppm	35 cps
Al 308.215 (ETA AQ-Radial-iFR)	9.497 ppm	864 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	7 cps
Ca 317.933 (ETA AQ-Radial-iFR)	385.867 ppm	105,089 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.008 ppm	23 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.151 ppm	556 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.135 ppm	1,357 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.869 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.625 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.864 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.243 ppm	8,750 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.023 ppm	513 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.816 ppm	566 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.018 ppm	57 cps
K 766.490 (ETA AQ-Radial-iFR)	5.498 ppm	847 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.570 ppm	9 cps

Label: 480-224888-B-12-EPDS #: 28
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:17:24 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	45.195 ppm	1,639 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
As 189.042 (ETA AQ-Axial-iFR)	1.500 ppm	157 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.802 ppm	303 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.654 ppm	153 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.398 ppm	125 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.768 ppm	380 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.880 ppm	1,469 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.795 ppm	80 cps
B 208.959 (ETA AQ-Axial-iFR)	1.113 ppm	323 cps
P 213.618 (ETA AQ-Axial-iFR)	0.990 ppm	90 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.024 ppm	132 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.258 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	93.818 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.877 ppm	518 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.836 ppm	1,028 cps
In 230.606 (ETA AQ-Axial-iFR)	90.649 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.894 ppm	384 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.302 ppm	24,117 cps
Fe 259.940 (ETA AQ-Axial-iFR)	74.749 ppm	81,346 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.761 ppm	994 cps
Fe 271.441 (ETA AQ-Radial-iFR)	73.316 ppm	1,746 cps
Mg 279.079 (ETA AQ-Radial-iFR)	740.140 ppm	52,907 cps
Si 288.158 (ETA AQ-Radial-iFR)	26.964 ppm	3,748 cps
V 292.402 (ETA AQ-Axial-iFR)	0.815 ppm	2,429 cps
Al 308.215 (ETA AQ-Radial-iFR)	58.962 ppm	5,360 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.741 ppm	17,249 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,524.375 ppm	415,137 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.970 ppm	3,066 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.085 ppm	296 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.426 ppm	5,305 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.318 ppm	13,208 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.266 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.078 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.687 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.799 ppm	64,815 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.665 ppm	36,783 cps
Na 589.592 (ETA AQ-Radial-iFR)	90.546 ppm	60,181 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.953 ppm	2,795 cps
K 766.490 (ETA AQ-Radial-iFR)	113.137 ppm	17,358 cps
Na 818.326 (ETA AQ-Radial-iFR)	85.184 ppm	1,571 cps

Label: 480-224888-B-12-F MS #: 29
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:19:17 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	56.539 ppm	2,050 cps
As 189.042 (ETA AQ-Axial-iFR)	1.613 ppm	169 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.788 ppm	300 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.733 ppm	160 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.477 ppm	132 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.802 ppm	397 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.078 ppm	842 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.650 ppm	66 cps
B 208.959 (ETA AQ-Axial-iFR)	1.256 ppm	364 cps
P 213.618 (ETA AQ-Axial-iFR)	17.748 ppm	1,667 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.078 ppm	139 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Axial-iFR)	105.525 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.881 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.904 ppm	534 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.862 ppm	1,060 cps
In 230.606 (ETA AQ-Axial-iFR)	97.162 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.937 ppm	403 cps
Mn 257.610 (ETA AQ-Radial-iFR)	5.711 ppm	21,862 cps
Fe 259.940 (ETA AQ-Axial-iFR)	79.377 ppm	86,384 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.847 ppm	1,105 cps
Fe 271.441 (ETA AQ-Radial-iFR)	73.623 ppm	1,753 cps
Mg 279.079 (ETA AQ-Radial-iFR)	729.905 ppm	52,176 cps
Si 288.158 (ETA AQ-Radial-iFR)	27.750 ppm	3,856 cps
V 292.402 (ETA AQ-Axial-iFR)	0.880 ppm	2,623 cps
Al 308.215 (ETA AQ-Radial-iFR)	84.805 ppm	7,709 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.795 ppm	18,523 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,482.009 ppm	403,600 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.994 ppm	3,142 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.089 ppm	313 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.253 ppm	4,664 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.264 ppm	12,662 cps
Y 360.073 (ETA AQ-Axial-iFR)	111.876 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.900 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.418 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.745 ppm	62,866 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.816 ppm	40,107 cps
Na 589.592 (ETA AQ-Radial-iFR)	50.508 ppm	33,581 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.045 ppm	3,064 cps
K 766.490 (ETA AQ-Radial-iFR)	87.892 ppm	13,485 cps
Na 818.326 (ETA AQ-Radial-iFR)	46.847 ppm	864 cps

Label: 480-224888-B-12-G MSD #: 30
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:21:11 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	55.134 ppm	1,999 cps
As 189.042 (ETA AQ-Axial-iFR)	1.623 ppm	170 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.798 ppm	302 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.742 ppm	161 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.488 ppm	133 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.805 ppm	398 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.149 ppm	899 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.666 ppm	68 cps
B 208.959 (ETA AQ-Axial-iFR)	1.201 ppm	348 cps
P 213.618 (ETA AQ-Axial-iFR)	17.818 ppm	1,674 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.187 ppm	153 cps
Y 224.306 (ETA AQ-Axial-iFR)	105.355 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.996 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.907 ppm	536 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.866 ppm	1,064 cps
In 230.606 (ETA AQ-Axial-iFR)	96.979 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.935 ppm	402 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.758 ppm	25,863 cps
Fe 259.940 (ETA AQ-Axial-iFR)	79.082 ppm	86,062 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.841 ppm	1,097 cps
Fe 271.441 (ETA AQ-Radial-iFR)	73.383 ppm	1,747 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mg 279.079 (ETA AQ-Radial-iFR)	734.687 ppm	52,518 cps
Si 288.158 (ETA AQ-Radial-iFR)	31.214 ppm	4,336 cps
V 292.402 (ETA AQ-Axial-iFR)	0.874 ppm	2,606 cps
Al 308.215 (ETA AQ-Radial-iFR)	75.905 ppm	6,900 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.797 ppm	18,567 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,497.403 ppm	407,792 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.991 ppm	3,133 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.090 ppm	315 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.348 ppm	5,017 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.359 ppm	13,617 cps
Y 360.073 (ETA AQ-Axial-iFR)	111.547 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.424 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.724 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.739 ppm	62,641 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.813 ppm	40,036 cps
Na 589.592 (ETA AQ-Radial-iFR)	50.134 ppm	33,332 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.036 ppm	3,037 cps
K 766.490 (ETA AQ-Radial-iFR)	82.971 ppm	12,730 cps
Na 818.326 (ETA AQ-Radial-iFR)	46.835 ppm	863 cps

Label: 480-224888-C-13-C #: 31
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:23:04 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	44.305 ppm	1,607 cps
As 189.042 (ETA AQ-Axial-iFR)	0.037 ppm	3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.049 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.512 ppm	400 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.260 ppm	75 cps
P 213.618 (ETA AQ-Axial-iFR)	1.003 ppm	92 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.203 ppm	26 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.198 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.974 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.016 ppm	9 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.003 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	91.667 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.041 ppm	17 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.063 ppm	23,177 cps
Fe 259.940 (ETA AQ-Axial-iFR)	60.896 ppm	66,267 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.042 ppm	56 cps
Fe 271.441 (ETA AQ-Radial-iFR)	58.811 ppm	1,399 cps
Mg 279.079 (ETA AQ-Radial-iFR)	694.838 ppm	49,669 cps
Si 288.158 (ETA AQ-Radial-iFR)	22.310 ppm	3,099 cps
V 292.402 (ETA AQ-Axial-iFR)	0.052 ppm	153 cps
Al 308.215 (ETA AQ-Radial-iFR)	39.802 ppm	3,619 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,558.397 ppm	424,397 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.042 ppm	129 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.503 ppm	1,868 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.455 ppm	4,563 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Axial-iFR)	109.102 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.268 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.892 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.567 ppm	56,454 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.167 ppm	3,695 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.458 ppm	2,321 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.081 ppm	241 cps
K 766.490 (ETA AQ-Radial-iFR)	24.054 ppm	3,693 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.997 ppm	54 cps

Label: 480-224888-C-14-C #: 32
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:24:57 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	40.342 ppm	1,463 cps
As 189.042 (ETA AQ-Axial-iFR)	0.028 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.048 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.234 ppm	183 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.194 ppm	56 cps
P 213.618 (ETA AQ-Axial-iFR)	0.918 ppm	84 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.139 ppm	18 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.438 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.863 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.013 ppm	7 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	91.412 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.029 ppm	11 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.311 ppm	24,124 cps
Fe 259.940 (ETA AQ-Axial-iFR)	47.692 ppm	51,899 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.034 ppm	45 cps
Fe 271.441 (ETA AQ-Radial-iFR)	45.287 ppm	1,078 cps
Mg 279.079 (ETA AQ-Radial-iFR)	626.854 ppm	44,809 cps
Si 288.158 (ETA AQ-Radial-iFR)	26.263 ppm	3,646 cps
V 292.402 (ETA AQ-Axial-iFR)	0.040 ppm	118 cps
Al 308.215 (ETA AQ-Radial-iFR)	30.421 ppm	2,766 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.001 ppm	28 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,792.421 ppm	488,128 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.029 ppm	87 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.587 ppm	2,182 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.531 ppm	5,325 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.277 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.774 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.206 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.216 ppm	43,822 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.083 ppm	1,835 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.071 ppm	2,064 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.063 ppm	186 cps
K 766.490 (ETA AQ-Radial-iFR)	18.445 ppm	2,833 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.700 ppm	49 cps

Basic Sample Report
10/31/2024 7:39:06 AM

QTEGRA

Label: CCV-8122457 #: 33
Analysis Type: QC Analysis started at: 10/30/2024 2:26:51 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	25.226 ppm	100.906 %
As 189.042 (ETA AQ-Axial-iFR)	0.950 ppm	94.981 %
Sn 189.989 (ETA AQ-Axial-iFR)	1.021 ppm	102.079 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.961 ppm	96.094 %
Se 196.090 (ETA AQ-Axial-iFR)	0.952 ppm	95.158 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.977 ppm	97.662 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.044 ppm	104.385 %
Sb 206.833 (ETA AQ-Axial-iFR)	1.000 ppm	99.977 %
B 208.959 (ETA AQ-Axial-iFR)	1.028 ppm	102.760 %
P 213.618 (ETA AQ-Axial-iFR)	25.601 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	1.009 ppm	100.892 %
Y 224.306 (ETA AQ-Axial-iFR)	100.705 %	
Y 224.306 (ETA AQ-Radial-iFR)	93.994 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.018 ppm	101.828 %
Cd 228.802 (ETA AQ-Axial-iFR)	1.006 ppm	100.601 %
In 230.606 (ETA AQ-Axial-iFR)	103.073 %	
Ni 231.604 (ETA AQ-Axial-iFR)	1.012 ppm	101.234 %
Mn 257.610 (ETA AQ-Radial-iFR)	1.001 ppm	100.059 %
Fe 259.940 (ETA AQ-Axial-iFR)	51.362 ppm	102.725 %
Cr 267.716 (ETA AQ-Axial-iFR)	1.018 ppm	101.802 %
Fe 271.441 (ETA AQ-Radial-iFR)	50.784 ppm	101.567 %
Mg 279.079 (ETA AQ-Radial-iFR)	50.953 ppm	101.905 %
Si 288.158 (ETA AQ-Radial-iFR)	9.917 ppm	99.171 %
V 292.402 (ETA AQ-Axial-iFR)	1.011 ppm	101.147 %
Al 308.215 (ETA AQ-Radial-iFR)	50.992 ppm	101.983 %
Be 313.042 (ETA AQ-Radial-iFR)	1.009 ppm	100.894 %
Ca 317.933 (ETA AQ-Radial-iFR)	52.607 ppm	105.215 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.990 ppm	98.985 %
Ag 328.068 (ETA AQ-Axial-iFR)	1.012 ppm	101.221 %
Ti 334.904 (ETA AQ-Axial-iFR)	1.044 ppm	104.356 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.982 ppm	98.208 %
Y 360.073 (ETA AQ-Axial-iFR)	101.189 %	
Y 360.073 (ETA AQ-Radial-iFR)	92.946 %	
Y 377.433 (ETA AQ-Radial-iFR)	92.750 %	
Sr 407.771 (ETA AQ-Radial-iFR)	1.004 ppm	100.413 %
Ba 455.403 (ETA AQ-Radial-iFR)	1.025 ppm	102.547 %
Na 589.592 (ETA AQ-Radial-iFR)	51.954 ppm	103.909 %
Li 670.784 (ETA AQ-Radial-iFR)	1.034 ppm	103.415 %
K 766.490 (ETA AQ-Radial-iFR)	52.145 ppm	104.291 %
Na 818.326 (ETA AQ-Radial-iFR)	50.094 ppm	100.188 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	916 cps
As 189.042 (ETA AQ-Axial-iFR)	99 cps
Sn 189.989 (ETA AQ-Axial-iFR)	172 cps
Tl 190.856 (ETA AQ-Axial-iFR)	88 cps
Se 196.090 (ETA AQ-Axial-iFR)	85 cps
Mo 202.030 (ETA AQ-Axial-iFR)	484 cps
Zn 206.200 (ETA AQ-Axial-iFR)	816 cps
Sb 206.833 (ETA AQ-Axial-iFR)	101 cps
B 208.959 (ETA AQ-Axial-iFR)	301 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
P 213.618 (ETA AQ-Axial-iFR)	2,406 cps
Pb 220.353 (ETA AQ-Axial-iFR)	130 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	601 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,234 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	435 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,842 cps
Fe 259.940 (ETA AQ-Axial-iFR)	55,900 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,328 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,209 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,642 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,386 cps
V 292.402 (ETA AQ-Axial-iFR)	3,016 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,636 cps
Be 313.042 (ETA AQ-Radial-iFR)	23,495 cps
Ca 317.933 (ETA AQ-Radial-iFR)	14,340 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,129 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,804 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,884 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,840 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	36,176 cps
Ba 455.403 (ETA AQ-Radial-iFR)	22,652 cps
Na 589.592 (ETA AQ-Radial-iFR)	34,542 cps
Li 670.784 (ETA AQ-Radial-iFR)	3,032 cps
K 766.490 (ETA AQ-Radial-iFR)	8,002 cps
Na 818.326 (ETA AQ-Radial-iFR)	923 cps

Label: CCB-8122474 #: 34
Analysis Type: QC Analysis started at: 10/30/2024 2:28:46 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.022 ppm	-11.229 %
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	4.422 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-7.276 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	7.206 %
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	3.984 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	-3.573 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.107 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	-1.022 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	12.494 %
P 213.618 (ETA AQ-Axial-iFR)	0.001 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	4.057 %
Y 224.306 (ETA AQ-Axial-iFR)	103.176 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.899 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	0.608 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-16.161 %
In 230.606 (ETA AQ-Axial-iFR)	103.909 %	
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-5.414 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.006 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.247 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	3.943 %
Fe 271.441 (ETA AQ-Radial-iFR)	-0.005 ppm	-9.330 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.002 ppm	-1.117 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.024 ppm	-4.886 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.046 %
Al 308.215 (ETA AQ-Radial-iFR)	0.000 ppm	-0.149 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.342 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	-0.022 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	5.242 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-0.008 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	14.486 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.011 %
Y 360.073 (ETA AQ-Axial-iFR)	102.405 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.756 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.673 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.865 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	10.545 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.016 ppm	-1.613 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-2.237 %
K 766.490 (ETA AQ-Radial-iFR)	0.012 ppm	2.395 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.206 ppm	-20.589 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	4 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Ba 455.403 (ETA AQ-Radial-iFR)	5 cps
Na 589.592 (ETA AQ-Radial-iFR)	13 cps
Li 670.784 (ETA AQ-Radial-iFR)	1 cps
K 766.490 (ETA AQ-Radial-iFR)	5 cps
Na 818.326 (ETA AQ-Radial-iFR)	-5 cps

Label: CCVL-8122384 #: 35
Analysis Type: QC Analysis started at: 10/30/2024 2:30:39 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.161 ppm	80.663 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	98.464 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	104.397 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.019 ppm	97.205 %
Se 196.090 (ETA AQ-Axial-iFR)	0.023 ppm	91.634 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	85.908 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	107.049 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.017 ppm	84.265 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	98.116 %
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.012 ppm	115.197 %
Y 224.306 (ETA AQ-Axial-iFR)	103.875 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.402 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	100.012 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	85.423 %
In 230.606 (ETA AQ-Axial-iFR)	104.353 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	105.157 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	99.420 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.745 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	98.919 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.034 ppm	68.232 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.200 ppm	100.169 %
Si 288.158 (ETA AQ-Radial-iFR)	0.436 ppm	87.161 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	88.248 %
Al 308.215 (ETA AQ-Radial-iFR)	0.185 ppm	92.363 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.308 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.491 ppm	98.172 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.010 ppm	95.463 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	95.157 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	109.558 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	88.950 %
Y 360.073 (ETA AQ-Axial-iFR)	103.184 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.736 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.760 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	93.845 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	106.013 %
Na 589.592 (ETA AQ-Radial-iFR)	0.978 ppm	97.801 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	97.167 %
K 766.490 (ETA AQ-Radial-iFR)	0.492 ppm	98.442 %
Na 818.326 (ETA AQ-Radial-iFR)	0.815 ppm	81.516 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	2 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	63 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	162 cps
Ba 455.403 (ETA AQ-Radial-iFR)	48 cps
Na 589.592 (ETA AQ-Radial-iFR)	674 cps
Li 670.784 (ETA AQ-Radial-iFR)	89 cps
K 766.490 (ETA AQ-Radial-iFR)	79 cps
Na 818.326 (ETA AQ-Radial-iFR)	14 cps

Label: 480-224888-B-15-C #: 36
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:32:35 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	39.200 ppm	1,422 cps
As 189.042 (ETA AQ-Axial-iFR)	0.033 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.046 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.008 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.400 ppm	313 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.005 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.207 ppm	60 cps
P 213.618 (ETA AQ-Axial-iFR)	1.052 ppm	96 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.237 ppm	30 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.515 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.322 %	198 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Co 228.616 (ETA AQ-Axial-iFR)	0.015 ppm	8 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	90.864 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.036 ppm	15 cps
Mn 257.610 (ETA AQ-Radial-iFR)	9.457 ppm	36,147 cps
Fe 259.940 (ETA AQ-Axial-iFR)	61.619 ppm	67,053 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.036 ppm	49 cps
Fe 271.441 (ETA AQ-Radial-iFR)	59.488 ppm	1,415 cps
Mg 279.079 (ETA AQ-Radial-iFR)	674.286 ppm	48,200 cps
Si 288.158 (ETA AQ-Radial-iFR)	22.989 ppm	3,193 cps
V 292.402 (ETA AQ-Axial-iFR)	0.047 ppm	138 cps
Al 308.215 (ETA AQ-Radial-iFR)	31.947 ppm	2,905 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.001 ppm	32 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,657.073 ppm	451,269 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.035 ppm	108 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.494 ppm	1,835 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.447 ppm	4,483 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.775 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.945 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.727 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.005 ppm	36,194 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.083 ppm	1,823 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.158 ppm	2,122 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.066 ppm	196 cps
K 766.490 (ETA AQ-Radial-iFR)	19.175 ppm	2,944 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.788 ppm	50 cps

Label: 480-224873-A-1-A #: 37
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:34:28 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	6.181 ppm	227 cps
As 189.042 (ETA AQ-Axial-iFR)	0.028 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.140 ppm	24 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.010 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.031 ppm	-2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.098 ppm	49 cps
Zn 206.200 (ETA AQ-Axial-iFR)	12.888 ppm	10,052 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.015 ppm	8 cps
B 208.959 (ETA AQ-Axial-iFR)	0.076 ppm	24 cps
P 213.618 (ETA AQ-Axial-iFR)	5.845 ppm	547 cps
Pb 220.353 (ETA AQ-Axial-iFR)	419.898 ppm	54,412 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.718 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.428 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.255 ppm	152 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	92.574 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.258 ppm	110 cps
Mn 257.610 (ETA AQ-Radial-iFR)	7.766 ppm	29,730 cps
Fe 259.940 (ETA AQ-Axial-iFR)	466.043 ppm	507,119 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5.620 ppm	7,330 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2,213.205 ppm	52,563 cps
Mg 279.079 (ETA AQ-Radial-iFR)	48.587 ppm	3,473 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.442 ppm	911 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
V 292.402 (ETA AQ-Axial-iFR)	0.030 ppm	88 cps
Al 308.215 (ETA AQ-Radial-iFR)	16.848 ppm	1,532 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	8 cps
Ca 317.933 (ETA AQ-Radial-iFR)	12.012 ppm	3,279 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.521 ppm	1,645 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.007 ppm	**7 cps**
Ti 334.904 (ETA AQ-Axial-iFR)	2.384 ppm	8,870 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.193 ppm	21,968 cps
Y 360.073 (ETA AQ-Axial-iFR)	106.280 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.900 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.734 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.140 ppm	5,046 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.660 ppm	58,743 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.639 ppm	449 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.078 ppm	230 cps
K 766.490 (ETA AQ-Radial-iFR)	3.220 ppm	497 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.337 ppm	5 cps

Label: 480-224882-A-3-D #: 38
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:36:21 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	51.353 ppm	1,862 cps
As 189.042 (ETA AQ-Axial-iFR)	0.250 ppm	25 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.170 ppm	29 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.033 ppm	16 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.658 ppm	514 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.009 ppm	3 cps
B 208.959 (ETA AQ-Axial-iFR)	0.056 ppm	18 cps
P 213.618 (ETA AQ-Axial-iFR)	0.416 ppm	36 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.938 ppm	120 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.875 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	102.996 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.032 ppm	18 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	105.937 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.295 ppm	126 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3.138 ppm	11,999 cps
Fe 259.940 (ETA AQ-Axial-iFR)	255.653 ppm	278,186 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.291 ppm	380 cps
Fe 271.441 (ETA AQ-Radial-iFR)	361.732 ppm	8,592 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.730 ppm	52 cps
Si 288.158 (ETA AQ-Radial-iFR)	3.609 ppm	508 cps
V 292.402 (ETA AQ-Axial-iFR)	0.010 ppm	27 cps
Al 308.215 (ETA AQ-Radial-iFR)	1.211 ppm	111 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	44 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8.085 ppm	2,209 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.931 ppm	2,945 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.301 ppm	1,117 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.276 ppm	2,771 cps
Y 360.073 (ETA AQ-Axial-iFR)	107.182 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	102.781 %	2,493 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 377.433 (ETA AQ-Radial-iFR)	103.307 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.036 ppm	1,304 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.277 ppm	6,110 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.268 ppm	866 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.022 ppm	66 cps
K 766.490 (ETA AQ-Radial-iFR)	0.412 ppm	67 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.986 ppm	17 cps

Label: 480-224791-C-1-A #: 39
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:38:14 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.034 ppm	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.049 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.005 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.034 ppm	27 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.055 ppm	2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.092 ppm	12 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.765 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	102.351 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	106.976 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	12 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.621 ppm	678 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.003 ppm	4 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.566 ppm	14 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.021 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.003 ppm	7 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.015 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.081 ppm	30 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	10 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.860 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	102.571 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	102.970 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.001 ppm	25 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.076 ppm	74 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps
K 766.490 (ETA AQ-Radial-iFR)	10.743 ppm	1,651 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.053 ppm	-2 cps

Label: 480-224791-A-3-A #: 40

Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:40:08 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.157 ppm	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.052 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.008 ppm	-3 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.096 ppm	75 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.109 ppm	7 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.014 ppm	2 cps
Y 224.306 (ETA AQ-Axial-iFR)	105.132 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	103.903 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	107.717 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.001 ppm	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.144 ppm	159 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.154 ppm	4 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.018 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.010 ppm	6 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.264 ppm	25 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.153 ppm	49 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	106.687 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	103.878 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	104.375 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	11 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.268 ppm	202 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	9.486 ppm	1,458 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.126 ppm	1 cps

Label: 480-224791-B-5-A #: 41
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:42:02 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	18.381 ppm	669 cps
As 189.042 (ETA AQ-Axial-iFR)	0.018 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.048 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Zn 206.200 (ETA AQ-Axial-iFR)	0.281 ppm	221 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	2.553 ppm	726 cps
P 213.618 (ETA AQ-Axial-iFR)	0.558 ppm	50 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.416 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.479 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	108.001 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.008 ppm	2 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.115 ppm	439 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4.016 ppm	4,373 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.045 ppm	58 cps
Fe 271.441 (ETA AQ-Radial-iFR)	3.724 ppm	89 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.914 ppm	65 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.006 ppm	701 cps
V 292.402 (ETA AQ-Axial-iFR)	0.040 ppm	117 cps
Al 308.215 (ETA AQ-Radial-iFR)	4.213 ppm	384 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Ca 317.933 (ETA AQ-Radial-iFR)	127.145 ppm	34,632 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.049 ppm	153 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.213 ppm	789 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.195 ppm	1,960 cps
Y 360.073 (ETA AQ-Axial-iFR)	107.383 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.716 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	101.924 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.048 ppm	1,714 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.055 ppm	1,223 cps
Na 589.592 (ETA AQ-Radial-iFR)	40.336 ppm	26,823 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.003 ppm	11 cps
K 766.490 (ETA AQ-Radial-iFR)	0.932 ppm	146 cps
Na 818.326 (ETA AQ-Radial-iFR)	38.740 ppm	714 cps

Label: 480-224791-B-6-A #: 42
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:43:55 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10.904 ppm	398 cps
As 189.042 (ETA AQ-Axial-iFR)	0.022 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.063 ppm	11 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.188 ppm	147 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.062 ppm	19 cps
P 213.618 (ETA AQ-Axial-iFR)	1.105 ppm	101 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.022 ppm	3 cps
Y 224.306 (ETA AQ-Axial-iFR)	103.404 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.155 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.013 ppm	10 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	100.023 %	624 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ni 231.604 (ETA AQ-Axial-iFR)	0.072 ppm	30 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.727 ppm	2,779 cps
Fe 259.940 (ETA AQ-Axial-iFR)	39.359 ppm	42,833 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.114 ppm	149 cps
Fe 271.441 (ETA AQ-Radial-iFR)	37.266 ppm	886 cps
Mg 279.079 (ETA AQ-Radial-iFR)	80.360 ppm	5,744 cps
Si 288.158 (ETA AQ-Radial-iFR)	15.841 ppm	2,216 cps
V 292.402 (ETA AQ-Axial-iFR)	0.087 ppm	257 cps
Al 308.215 (ETA AQ-Radial-iFR)	66.465 ppm	6,042 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	74 cps
Ca 317.933 (ETA AQ-Radial-iFR)	992.179 ppm	270,202 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.037 ppm	114 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3.165 ppm	11,779 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.923 ppm	29,279 cps
Y 360.073 (ETA AQ-Axial-iFR)	109.134 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.141 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	101.488 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.436 ppm	51,726 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.050 ppm	1,100 cps
Na 589.592 (ETA AQ-Radial-iFR)	6.624 ppm	4,425 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.071 ppm	212 cps
K 766.490 (ETA AQ-Radial-iFR)	1.921 ppm	297 cps
Na 818.326 (ETA AQ-Radial-iFR)	5.989 ppm	109 cps

Label: 480-224791-B-9-A #: 43
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:45:48 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	900.458 ppm	32,593 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.067 ppm	11 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.010 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.301 ppm	235 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.010 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.071 ppm	22 cps
P 213.618 (ETA AQ-Axial-iFR)	0.890 ppm	81 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	110.895 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	108.257 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	116.139 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.128 ppm	54 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.114 ppm	435 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.028 ppm	5,509 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.183 ppm	239 cps
Fe 271.441 (ETA AQ-Radial-iFR)	4.515 ppm	108 cps
Mg 279.079 (ETA AQ-Radial-iFR)	13.489 ppm	964 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.012 ppm	563 cps
V 292.402 (ETA AQ-Axial-iFR)	0.006 ppm	17 cps
Al 308.215 (ETA AQ-Radial-iFR)	707.528 ppm	64,310 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	57 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ca 317.933 (ETA AQ-Radial-iFR)	23.429 ppm	6,388 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.055 ppm	170 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.002 ppm	-14 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.067 ppm	247 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.067 ppm	679 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.961 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	106.012 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	104.949 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.021 ppm	754 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.011 ppm	239 cps
Na 589.592 (ETA AQ-Radial-iFR)	13.035 ppm	8,684 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.042 ppm	127 cps
K 766.490 (ETA AQ-Radial-iFR)	0.694 ppm	102 cps
Na 818.326 (ETA AQ-Radial-iFR)	12.761 ppm	234 cps

Label: 480-224791-A-25-A #: 44
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 2:47:42 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.520 ppm	28 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.017 ppm	-3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.053 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.023 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.017 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.010 ppm	-5 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.196 ppm	154 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.035 ppm	-3 cps
B 208.959 (ETA AQ-Axial-iFR)	0.018 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	0.451 ppm	40 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.045 ppm	-6 cps
Y 224.306 (ETA AQ-Axial-iFR)	107.950 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.164 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	111.516 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.036 ppm	138 cps
Fe 259.940 (ETA AQ-Axial-iFR)	1.153 ppm	1,422 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1.186 ppm	29 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.263 ppm	19 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.234 ppm	178 cps
V 292.402 (ETA AQ-Axial-iFR)	0.009 ppm	25 cps
Al 308.215 (ETA AQ-Radial-iFR)	3,279.501 ppm	298,082 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.009 ppm	217 cps
Ca 317.933 (ETA AQ-Radial-iFR)	2.365 ppm	652 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.057 ppm	209 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.057 ppm	574 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.317 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.398 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.837 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.016 ppm	568 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.010 ppm	214 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 589.592 (ETA AQ-Radial-iFR)	16.772 ppm	11,167 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.023 ppm	70 cps
K 766.490 (ETA AQ-Radial-iFR)	0.477 ppm	39 cps
Na 818.326 (ETA AQ-Radial-iFR)	16.404 ppm	302 cps

Label: CCB-8122474 #: 46
Analysis Type: QC Analysis started at: 10/30/2024 2:51:30 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.006 ppm	2.852 %
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	20.351 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0.278 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	15.940 %
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	7.430 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-8.402 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-1.507 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	-3.944 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	8.008 %
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	15.491 %
Y 224.306 (ETA AQ-Axial-iFR)	102.991 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.510 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	4.046 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	0.292 %
In 230.606 (ETA AQ-Axial-iFR)	103.770 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	6.862 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.001 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.213 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	4.184 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.001 ppm	2.521 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.006 ppm	3.102 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.017 ppm	-3.337 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.015 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.006 ppm	-3.073 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-2.701 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.306 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	5.903 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	2.388 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	13.238 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.007 %
Y 360.073 (ETA AQ-Axial-iFR)	102.241 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.530 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.597 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.000 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	5.521 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.023 ppm	-2.315 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-1.960 %
K 766.490 (ETA AQ-Radial-iFR)	-0.020 ppm	-3.928 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.126 ppm	-12.592 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	4 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	9 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	0 cps
Na 818.326 (ETA AQ-Radial-iFR)	-3 cps

Label: CCVL-8122384 #: 47
Analysis Type: QC Analysis started at: 10/30/2024 2:53:25 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.187 ppm	93.667 %
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	109.820 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	102.937 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.019 ppm	93.568 %
Se 196.090 (ETA AQ-Axial-iFR)	0.022 ppm	87.960 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	81.841 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	105.210 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.019 ppm	96.104 %
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	95.270 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	87.497 %
Y 224.306 (ETA AQ-Axial-iFR)	103.444 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.475 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	94.198 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	93.339 %
In 230.606 (ETA AQ-Axial-iFR)	104.153 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	96.511 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	94.907 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.826 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	99.142 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.063 ppm	126.849 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.204 ppm	102.206 %
Si 288.158 (ETA AQ-Radial-iFR)	0.437 ppm	87.371 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	89.456 %
Al 308.215 (ETA AQ-Radial-iFR)	0.200 ppm	99.895 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	95.871 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.495 ppm	98.986 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	94.157 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.005 ppm	90.798 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	111.868 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	88.099 %
Y 360.073 (ETA AQ-Axial-iFR)	102.993 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.652 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.562 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	93.265 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	100.743 %
Na 589.592 (ETA AQ-Radial-iFR)	0.971 ppm	97.053 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	97.532 %
K 766.490 (ETA AQ-Radial-iFR)	0.481 ppm	96.171 %
Na 818.326 (ETA AQ-Radial-iFR)	0.728 ppm	72.766 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	63 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	15 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	19 cps
Be 313.042 (ETA AQ-Radial-iFR)	42 cps
Ca 317.933 (ETA AQ-Radial-iFR)	142 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	17 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	161 cps
Ba 455.403 (ETA AQ-Radial-iFR)	45 cps
Na 589.592 (ETA AQ-Radial-iFR)	669 cps
Li 670.784 (ETA AQ-Radial-iFR)	89 cps
K 766.490 (ETA AQ-Radial-iFR)	77 cps
Na 818.326 (ETA AQ-Radial-iFR)	12 cps

Label: CCV-8122457 #: 48
Analysis Type: QC Analysis started at: 10/30/2024 2:58:18 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.269 ppm	97.078 %
As 189.042 (ETA AQ-Axial-iFR)	0.918 ppm	91.828 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.968 ppm	96.772 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.926 ppm	92.558 %
Se 196.090 (ETA AQ-Axial-iFR)	0.923 ppm	92.302 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.936 ppm	93.640 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.009 ppm	100.918 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.953 ppm	95.299 %
B 208.959 (ETA AQ-Axial-iFR)	0.977 ppm	97.671 %
P 213.618 (ETA AQ-Axial-iFR)	24.651 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.963 ppm	96.303 %
Y 224.306 (ETA AQ-Axial-iFR)	104.879 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.514 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.970 ppm	97.033 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.965 ppm	96.516 %
In 230.606 (ETA AQ-Axial-iFR)	107.940 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.969 ppm	96.943 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.964 ppm	96.425 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.205 ppm	100.411 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.986 ppm	98.592 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.733 ppm	97.466 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.225 ppm	98.451 %
Si 288.158 (ETA AQ-Radial-iFR)	9.528 ppm	95.282 %
V 292.402 (ETA AQ-Axial-iFR)	0.971 ppm	97.107 %
Al 308.215 (ETA AQ-Radial-iFR)	49.195 ppm	98.389 %
Be 313.042 (ETA AQ-Radial-iFR)	0.972 ppm	97.229 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.715 ppm	101.431 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.943 ppm	94.292 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.967 ppm	96.673 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.988 ppm	98.788 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.958 ppm	95.760 %
Y 360.073 (ETA AQ-Axial-iFR)	104.658 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.671 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.388 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.962 ppm	96.206 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.984 ppm	98.376 %
Na 589.592 (ETA AQ-Radial-iFR)	49.850 ppm	99.700 %
Li 670.784 (ETA AQ-Radial-iFR)	0.991 ppm	99.142 %
K 766.490 (ETA AQ-Radial-iFR)	50.137 ppm	100.274 %
Na 818.326 (ETA AQ-Radial-iFR)	48.015 ppm	96.030 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	882 cps
As 189.042 (ETA AQ-Axial-iFR)	96 cps
Sn 189.989 (ETA AQ-Axial-iFR)	163 cps
Tl 190.856 (ETA AQ-Axial-iFR)	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	464 cps
Zn 206.200 (ETA AQ-Axial-iFR)	789 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	286 cps
P 213.618 (ETA AQ-Axial-iFR)	2,317 cps
Pb 220.353 (ETA AQ-Axial-iFR)	125 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	573 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,184 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	417 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,703 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,640 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,286 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,160 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,519 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,331 cps
V 292.402 (ETA AQ-Axial-iFR)	2,896 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,473 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,642 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,824 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2,980 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,632 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,676 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,595 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,660 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,731 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,144 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,907 cps
K 766.490 (ETA AQ-Radial-iFR)	7,694 cps
Na 818.326 (ETA AQ-Radial-iFR)	885 cps

Label: Rinse Blank #: 49
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:00:13 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.010 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.680 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.202 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.762 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.010 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.002 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.018 ppm	5 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.001 ppm	8 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.165 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.767 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.414 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.018 ppm	12 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	2 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.001 ppm	3 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.218 ppm	-5 cps

Label: LCS 480-730151/2-A #: 50
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:08:56 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	4.878 ppm	180 cps
As 189.042 (ETA AQ-Axial-iFR)	0.942 ppm	98 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.015 ppm	170 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.953 ppm	87 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.928 ppm	83 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.493 ppm	244 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.509 ppm	399 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.506 ppm	51 cps
B 208.959 (ETA AQ-Axial-iFR)	0.513 ppm	151 cps
P 213.618 (ETA AQ-Axial-iFR)	10.075 ppm	945 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.504 ppm	65 cps
Y 224.306 (ETA AQ-Axial-iFR)	103.113 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.397 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.509 ppm	300 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.501 ppm	617 cps
In 230.606 (ETA AQ-Axial-iFR)	106.064 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.516 ppm	221 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.498 ppm	1,922 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.455 ppm	5,941 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Cr 267.716 (ETA AQ-Axial-iFR)	0.506 ppm	660 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.136 ppm	124 cps
Mg 279.079 (ETA AQ-Radial-iFR)	24.954 ppm	1,784 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.987 ppm	147 cps
V 292.402 (ETA AQ-Axial-iFR)	0.510 ppm	1,519 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.135 ppm	468 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.515 ppm	11,991 cps
Ca 317.933 (ETA AQ-Radial-iFR)	26.120 ppm	7,124 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.487 ppm	1,536 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.050 ppm	166 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.546 ppm	2,030 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.501 ppm	5,027 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.985 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.031 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.919 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.515 ppm	18,546 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.040 ppm	22,968 cps
Na 589.592 (ETA AQ-Radial-iFR)	26.173 ppm	17,413 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.517 ppm	1,517 cps
K 766.490 (ETA AQ-Radial-iFR)	26.054 ppm	4,000 cps
Na 818.326 (ETA AQ-Radial-iFR)	24.865 ppm	458 cps

Label: 480-224706-A-1-A #: 51
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:10:54 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3.714 ppm	138 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.018 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	0.009 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.541 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	102.490 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	107.391 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.135 ppm	523 cps
Fe 259.940 (ETA AQ-Axial-iFR)	2.391 ppm	2,604 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.003 ppm	4 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2.244 ppm	54 cps
Mg 279.079 (ETA AQ-Radial-iFR)	4.981 ppm	356 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.117 ppm	23 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.037 ppm	4 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	19.137 ppm	5,219 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.003 ppm	7 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	106.741 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	102.012 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	102.282 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.170 ppm	6,103 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.312 ppm	6,888 cps
Na 589.592 (ETA AQ-Radial-iFR)	25.397 ppm	16,897 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.002 ppm	9 cps
K 766.490 (ETA AQ-Radial-iFR)	1.290 ppm	201 cps
Na 818.326 (ETA AQ-Radial-iFR)	24.330 ppm	448 cps

Label: 480-224844-F-1-A #: 52
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:12:48 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	80.956 ppm	2,933 cps
As 189.042 (ETA AQ-Axial-iFR)	0.351 ppm	36 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.049 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.010 ppm	-3 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.010 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.111 ppm	55 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.103 ppm	24 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.050 ppm	6 cps
B 208.959 (ETA AQ-Axial-iFR)	52.322 ppm	14,845 cps
P 213.618 (ETA AQ-Axial-iFR)	10.590 ppm	994 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	85.760 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	80.747 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.029 ppm	16 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	78.395 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.192 ppm	82 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.902 ppm	7,307 cps
Fe 259.940 (ETA AQ-Axial-iFR)	11.457 ppm	12,470 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.309 ppm	403 cps
Fe 271.441 (ETA AQ-Radial-iFR)	10.897 ppm	260 cps
Mg 279.079 (ETA AQ-Radial-iFR)	271.732 ppm	19,424 cps
Si 288.158 (ETA AQ-Radial-iFR)	54.875 ppm	7,606 cps
V 292.402 (ETA AQ-Axial-iFR)	0.043 ppm	127 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.298 ppm	28 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Ca 317.933 (ETA AQ-Radial-iFR)	218.737 ppm	59,575 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.013 ppm	37 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.122 ppm	451 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.111 ppm	1,115 cps
Y 360.073 (ETA AQ-Axial-iFR)	91.995 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	82.898 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	83.205 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	3.117 ppm	112,315 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.129 ppm	47,029 cps
Na 589.592 (ETA AQ-Radial-iFR)	3,052.059 ppm	2,027,762 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.308 ppm	3,835 cps
K 766.490 (ETA AQ-Radial-iFR)	1,381.209 ppm	211,879 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 818.326 (ETA AQ-Radial-iFR)	6,940.895 ppm	128,092 cps

Label: 480-224844-F-1-A@10 #: 53
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:14:41 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	7.805 ppm	286 cps
As 189.042 (ETA AQ-Axial-iFR)	0.039 ppm	3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.011 ppm	5 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.023 ppm	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	5.743 ppm	1,631 cps
P 213.618 (ETA AQ-Axial-iFR)	1.079 ppm	99 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.981 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.388 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	102.006 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.019 ppm	7 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.198 ppm	760 cps
Fe 259.940 (ETA AQ-Axial-iFR)	1.255 ppm	1,367 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.034 ppm	45 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1.194 ppm	29 cps
Mg 279.079 (ETA AQ-Radial-iFR)	27.106 ppm	1,938 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.316 ppm	743 cps
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.023 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	23.491 ppm	6,405 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.013 ppm	46 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.011 ppm	120 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.197 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.295 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.461 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.322 ppm	11,584 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.219 ppm	4,832 cps
Na 589.592 (ETA AQ-Radial-iFR)	616.206 ppm	409,421 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.121 ppm	359 cps
K 766.490 (ETA AQ-Radial-iFR)	140.122 ppm	21,498 cps
Na 818.326 (ETA AQ-Radial-iFR)	643.031 ppm	11,866 cps

Label: 480-224842-K-1-A #: 54
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:16:35 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	2,628.807 ppm	95,144 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
As 189.042 (ETA AQ-Axial-iFR)	0.130 ppm	12 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.027 ppm	5 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.047 ppm	23 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.070 ppm	32 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	9.327 ppm	2,648 cps
P 213.618 (ETA AQ-Axial-iFR)	12.340 ppm	1,158 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	73.295 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	71.908 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.035 ppm	20 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	62.991 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.288 ppm	123 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.033 ppm	126 cps
Fe 259.940 (ETA AQ-Axial-iFR)	3.647 ppm	3,971 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.140 ppm	183 cps
Fe 271.441 (ETA AQ-Radial-iFR)	3.542 ppm	85 cps
Mg 279.079 (ETA AQ-Radial-iFR)	89.108 ppm	6,370 cps
Si 288.158 (ETA AQ-Radial-iFR)	10.362 ppm	1,444 cps
V 292.402 (ETA AQ-Axial-iFR)	0.056 ppm	164 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.647 ppm	60 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	17.513 ppm	4,777 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.012 ppm	35 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.007 ppm	5 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.485 ppm	1,800 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.454 ppm	4,550 cps
Y 360.073 (ETA AQ-Axial-iFR)	79.396 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	74.659 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	74.787 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.268 ppm	9,657 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.065 ppm	1,445 cps
Na 589.592 (ETA AQ-Radial-iFR)	2,553.597 ppm	1,696,593 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.137 ppm	406 cps
K 766.490 (ETA AQ-Radial-iFR)	1,328.118 ppm	203,735 cps
Na 818.326 (ETA AQ-Radial-iFR)	28,387.358 ppm	523,885 cps

Label: Rinse Blank #: 55
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:21:00 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.155 ppm	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.018 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.003 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Axial-iFR)	99.245 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.396 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	99.286 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.012 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.008 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.022 ppm	10 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.006 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.326 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.468 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.559 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.433 ppm	312 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	0.177 ppm	31 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.114 ppm	-3 cps

Label: 480-224842-K-1-A@10 #: 56
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:22:58 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	1,160.124 ppm	41,990 cps
As 189.042 (ETA AQ-Axial-iFR)	0.018 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.012 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.005 ppm	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.087 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	1.142 ppm	325 cps
P 213.618 (ETA AQ-Axial-iFR)	1.312 ppm	121 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.211 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.493 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	93.865 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.036 ppm	15 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.004 ppm	16 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.472 ppm	516 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.018 ppm	24 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.484 ppm	12 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mg 279.079 (ETA AQ-Radial-iFR)	11.616 ppm	830 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.073 ppm	156 cps
V 292.402 (ETA AQ-Axial-iFR)	0.007 ppm	18 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.063 ppm	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	2.264 ppm	624 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-15 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.060 ppm	220 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.054 ppm	551 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.401 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	91.060 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	90.899 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.031 ppm	1,112 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.008 ppm	169 cps
Na 589.592 (ETA AQ-Radial-iFR)	2,122.178 ppm	1,409,964 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.014 ppm	45 cps
K 766.490 (ETA AQ-Radial-iFR)	140.408 ppm	21,542 cps
Na 818.326 (ETA AQ-Radial-iFR)	2,793.251 ppm	51,548 cps

Label: 480-224843-I-1-A #: 57
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:24:53 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	4.683 ppm	173 cps
As 189.042 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.007 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.010 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	1.801 ppm	512 cps
P 213.618 (ETA AQ-Axial-iFR)	0.300 ppm	25 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.907 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	93.523 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	100.125 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.040 ppm	16 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.073 ppm	285 cps
Fe 259.940 (ETA AQ-Axial-iFR)	14.459 ppm	15,736 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	13.592 ppm	324 cps
Mg 279.079 (ETA AQ-Radial-iFR)	175.089 ppm	12,516 cps
Si 288.158 (ETA AQ-Radial-iFR)	18.506 ppm	2,570 cps
V 292.402 (ETA AQ-Axial-iFR)	0.003 ppm	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.100 ppm	10 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	150.249 ppm	40,924 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	9 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.002 ppm	23 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Axial-iFR)	102.992 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.473 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.439 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.368 ppm	49,299 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.443 ppm	9,789 cps
Na 589.592 (ETA AQ-Radial-iFR)	361.707 ppm	240,337 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.080 ppm	237 cps
K 766.490 (ETA AQ-Radial-iFR)	104.972 ppm	16,106 cps
Na 818.326 (ETA AQ-Radial-iFR)	366.391 ppm	6,761 cps

Label: 480-224843-I-2-A #: 58
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:26:46 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	27.217 ppm	988 cps
As 189.042 (ETA AQ-Axial-iFR)	0.028 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.009 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.003 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.056 ppm	12 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	8.052 ppm	2,286 cps
P 213.618 (ETA AQ-Axial-iFR)	3.978 ppm	371 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.711 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.489 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.029 ppm	16 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	93.895 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.229 ppm	97 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.024 ppm	101 cps
Fe 259.940 (ETA AQ-Axial-iFR)	2.818 ppm	3,069 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.033 ppm	44 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2.702 ppm	65 cps
Mg 279.079 (ETA AQ-Radial-iFR)	87.848 ppm	6,279 cps
Si 288.158 (ETA AQ-Radial-iFR)	24.872 ppm	3,451 cps
V 292.402 (ETA AQ-Axial-iFR)	0.030 ppm	88 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.304 ppm	29 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	35.285 ppm	9,617 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.052 ppm	190 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.047 ppm	478 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.807 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	92.046 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	91.866 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.966 ppm	34,816 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.602 ppm	13,306 cps
Na 589.592 (ETA AQ-Radial-iFR)	1,639.400 ppm	1,089,215 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.068 ppm	204 cps
K 766.490 (ETA AQ-Radial-iFR)	416.746 ppm	63,932 cps
Na 818.326 (ETA AQ-Radial-iFR)	2,057.760 ppm	37,975 cps

Label: 480-224843-I-2-A@10 #: 59
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:28:40 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	2.615 ppm	98 cps
As 189.042 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.007 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.811 ppm	231 cps
P 213.618 (ETA AQ-Axial-iFR)	0.393 ppm	34 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.890 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.112 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	105.533 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.023 ppm	9 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.311 ppm	340 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.277 ppm	7 cps
Mg 279.079 (ETA AQ-Radial-iFR)	8.735 ppm	624 cps
Si 288.158 (ETA AQ-Radial-iFR)	2.457 ppm	347 cps
V 292.402 (ETA AQ-Axial-iFR)	0.003 ppm	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.026 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	3.640 ppm	999 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	17 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	54 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.792 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.973 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.743 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.099 ppm	3,570 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.061 ppm	1,355 cps
Na 589.592 (ETA AQ-Radial-iFR)	200.851 ppm	133,466 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.007 ppm	24 cps
K 766.490 (ETA AQ-Radial-iFR)	41.127 ppm	6,312 cps
Na 818.326 (ETA AQ-Radial-iFR)	200.414 ppm	3,698 cps

Label: Rinse Blank #: 60
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:30:34 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.036 ppm	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.012 ppm	5 cps
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.664 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.003 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.161 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.002 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.001 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.011 ppm	9 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.906 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.820 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.473 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.247 ppm	188 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	0.235 ppm	39 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.054 ppm	-2 cps

Label: CCV-8122457 #: 61
Analysis Type: QC Analysis started at: 10/30/2024 3:32:29 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.376 ppm	97.506 %
As 189.042 (ETA AQ-Axial-iFR)	0.918 ppm	91.846 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.969 ppm	96.872 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.924 ppm	92.376 %
Se 196.090 (ETA AQ-Axial-iFR)	0.919 ppm	91.858 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.934 ppm	93.358 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.010 ppm	101.038 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.955 ppm	95.459 %
B 208.959 (ETA AQ-Axial-iFR)	0.989 ppm	98.898 %
P 213.618 (ETA AQ-Axial-iFR)	24.753 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.957 ppm	95.736 %
Y 224.306 (ETA AQ-Axial-iFR)	104.637 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.065 %	

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Co 228.616 (ETA AQ-Axial-iFR)	0.971 ppm	97.144 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.964 ppm	96.367 %
In 230.606 (ETA AQ-Axial-iFR)	107.795 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.970 ppm	97.043 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.959 ppm	95.899 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.190 ppm	100.381 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.988 ppm	98.760 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.699 ppm	97.397 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.914 ppm	97.829 %
Si 288.158 (ETA AQ-Radial-iFR)	9.677 ppm	96.766 %
V 292.402 (ETA AQ-Axial-iFR)	0.972 ppm	97.208 %
Al 308.215 (ETA AQ-Radial-iFR)	49.073 ppm	98.145 %
Be 313.042 (ETA AQ-Radial-iFR)	0.968 ppm	96.821 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.456 ppm	100.911 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.947 ppm	94.663 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.969 ppm	96.858 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.988 ppm	98.814 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.958 ppm	95.836 %
Y 360.073 (ETA AQ-Axial-iFR)	104.431 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.949 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.780 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.962 ppm	96.170 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.985 ppm	98.456 %
Na 589.592 (ETA AQ-Radial-iFR)	49.741 ppm	99.482 %
Li 670.784 (ETA AQ-Radial-iFR)	0.990 ppm	99.037 %
K 766.490 (ETA AQ-Radial-iFR)	50.418 ppm	100.836 %
Na 818.326 (ETA AQ-Radial-iFR)	47.853 ppm	95.707 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	886 cps
As 189.042 (ETA AQ-Axial-iFR)	96 cps
Sn 189.989 (ETA AQ-Axial-iFR)	163 cps
Tl 190.856 (ETA AQ-Axial-iFR)	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	462 cps
Zn 206.200 (ETA AQ-Axial-iFR)	790 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	289 cps
P 213.618 (ETA AQ-Axial-iFR)	2,326 cps
Pb 220.353 (ETA AQ-Axial-iFR)	124 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	573 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,182 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	417 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,683 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,624 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,288 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,159 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,496 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,352 cps
V 292.402 (ETA AQ-Axial-iFR)	2,899 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,461 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,547 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,754 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2,992 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,639 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Ti 334.904 (ETA AQ-Axial-iFR)	3,677 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,603 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,647 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,748 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,071 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,904 cps
K 766.490 (ETA AQ-Radial-iFR)	7,737 cps
Na 818.326 (ETA AQ-Radial-iFR)	882 cps

Label: CCB-8122474 #: 62
Analysis Type: QC Analysis started at: 10/30/2024 3:34:24 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.023 ppm	11.302 %
As 189.042 (ETA AQ-Axial-iFR)	0.004 ppm	23.842 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-5.079 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	13.483 %
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	16.632 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-10.757 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-3.021 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	-12.016 %
B 208.959 (ETA AQ-Axial-iFR)	0.009 ppm	43.787 %
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-0.205 %
Y 224.306 (ETA AQ-Axial-iFR)	102.252 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.335 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	1.550 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-8.066 %
In 230.606 (ETA AQ-Axial-iFR)	103.125 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	2.339 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.002 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.001 ppm	0.107 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	7.717 %
Fe 271.441 (ETA AQ-Radial-iFR)	-0.003 ppm	-5.137 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.002 ppm	1.044 %
Si 288.158 (ETA AQ-Radial-iFR)	0.000 ppm	0.085 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.047 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.003 ppm	-1.459 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-2.604 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.342 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1.813 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	1.804 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	12.278 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.003 %
Y 360.073 (ETA AQ-Axial-iFR)	101.843 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.558 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.534 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.234 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	4.043 %
Na 589.592 (ETA AQ-Radial-iFR)	0.149 ppm	14.913 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-1.405 %
K 766.490 (ETA AQ-Radial-iFR)	0.143 ppm	28.670 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Na 818.326 (ETA AQ-Radial-iFR)	-0.178 ppm	-17.821 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	4 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	4 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	7 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	123 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	25 cps
Na 818.326 (ETA AQ-Radial-iFR)	-4 cps

Label: CCVL-8122384 #: 63
Analysis Type: QC Analysis started at: 10/30/2024 3:36:17 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.205 ppm	102.746 %
As 189.042 (ETA AQ-Axial-iFR)	0.017 ppm	112.285 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	103.933 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.019 ppm	94.100 %
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	85.482 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	85.445 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	100.023 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Sb 206.833 (ETA AQ-Axial-iFR)	0.017 ppm	86.758 %
B 208.959 (ETA AQ-Axial-iFR)	0.024 ppm	120.998 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	71.321 %
Y 224.306 (ETA AQ-Axial-iFR)	103.472 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.066 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	103.074 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	83.344 %
In 230.606 (ETA AQ-Axial-iFR)	104.082 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	104.098 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	93.873 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.315 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	98.284 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.045 ppm	90.824 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.194 ppm	96.873 %
Si 288.158 (ETA AQ-Radial-iFR)	0.454 ppm	90.839 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	85.666 %
Al 308.215 (ETA AQ-Radial-iFR)	0.197 ppm	98.276 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.753 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.494 ppm	98.755 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	90.419 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	92.763 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	108.375 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	86.998 %
Y 360.073 (ETA AQ-Axial-iFR)	103.019 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.697 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.423 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	93.341 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	105.370 %
Na 589.592 (ETA AQ-Radial-iFR)	1.109 ppm	110.942 %
Li 670.784 (ETA AQ-Radial-iFR)	0.030 ppm	100.047 %
K 766.490 (ETA AQ-Radial-iFR)	0.616 ppm	123.127 %
Na 818.326 (ETA AQ-Radial-iFR)	0.804 ppm	80.406 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	11 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	8 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	70 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	19 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	142 cps
Cu 327.396 (ETA AQ-Axial-iFR)	25 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	49 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	161 cps
Ba 455.403 (ETA AQ-Radial-iFR)	47 cps
Na 589.592 (ETA AQ-Radial-iFR)	761 cps
Li 670.784 (ETA AQ-Radial-iFR)	91 cps
K 766.490 (ETA AQ-Radial-iFR)	98 cps
Na 818.326 (ETA AQ-Radial-iFR)	14 cps

Label: 480-224872-C-3-A #: 64
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:38:36 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	147.608 ppm	5,345 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.009 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.011 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.206 ppm	60 cps
P 213.618 (ETA AQ-Axial-iFR)	0.025 ppm	-1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.446 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.288 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	102.281 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.112 ppm	427 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.305 ppm	334 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.252 ppm	7 cps
Mg 279.079 (ETA AQ-Radial-iFR)	60.913 ppm	4,354 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.836 ppm	815 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.007 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	226.567 ppm	61,707 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.153 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.252 %	2,493 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 377.433 (ETA AQ-Radial-iFR)	94.087 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.938 ppm	69,834 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.046 ppm	1,018 cps
Na 589.592 (ETA AQ-Radial-iFR)	296.872 ppm	197,261 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.071 ppm	213 cps
K 766.490 (ETA AQ-Radial-iFR)	6.015 ppm	926 cps
Na 818.326 (ETA AQ-Radial-iFR)	296.095 ppm	5,463 cps

Label: 480-224872-C-3-A@10 #: 65
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:40:43 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	14.682 ppm	535 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.024 ppm	8 cps
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.943 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.753 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.749 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.012 ppm	44 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.048 ppm	54 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.039 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	6.099 ppm	436 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.579 ppm	87 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.001 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.009 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	23.621 ppm	6,440 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.938 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.369 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.391 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.202 ppm	7,276 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.005 ppm	107 cps
Na 589.592 (ETA AQ-Radial-iFR)	30.571 ppm	20,335 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.006 ppm	22 cps
K 766.490 (ETA AQ-Radial-iFR)	0.682 ppm	108 cps
Na 818.326 (ETA AQ-Radial-iFR)	29.289 ppm	539 cps

Label: 480-224872-C-3-ASD@5 #: 66

Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:42:37 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	29.075 ppm	1,056 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.042 ppm	14 cps
P 213.618 (ETA AQ-Axial-iFR)	0.012 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.929 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.590 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.357 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.023 ppm	86 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.065 ppm	73 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.052 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	11.860 ppm	848 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.140 ppm	165 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.007 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	46.118 ppm	12,567 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.790 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.443 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.329 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.397 ppm	14,286 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.009 ppm	208 cps
Na 589.592 (ETA AQ-Radial-iFR)	59.962 ppm	39,862 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.014 ppm	44 cps
K 766.490 (ETA AQ-Radial-iFR)	1.248 ppm	195 cps
Na 818.326 (ETA AQ-Radial-iFR)	57.933 ppm	1,068 cps

Label: 480-224872-C-3-APDS #: 67
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:44:31 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	146.585 ppm	5,308 cps
As 189.042 (ETA AQ-Axial-iFR)	0.815 ppm	85 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.872 ppm	147 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.849 ppm	77 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.824 ppm	74 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.419 ppm	207 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Zn 206.200 (ETA AQ-Axial-iFR)	0.399 ppm	323 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.448 ppm	45 cps
B 208.959 (ETA AQ-Axial-iFR)	0.671 ppm	195 cps
P 213.618 (ETA AQ-Axial-iFR)	0.031 ppm	0 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.434 ppm	56 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.046 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.929 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.433 ppm	255 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.440 ppm	542 cps
In 230.606 (ETA AQ-Axial-iFR)	100.427 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.435 ppm	186 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.522 ppm	2,012 cps
Fe 259.940 (ETA AQ-Axial-iFR)	9.364 ppm	10,195 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.410 ppm	535 cps
Fe 271.441 (ETA AQ-Radial-iFR)	8.738 ppm	209 cps
Mg 279.079 (ETA AQ-Radial-iFR)	103.697 ppm	7,412 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.647 ppm	930 cps
V 292.402 (ETA AQ-Axial-iFR)	0.425 ppm	1,267 cps
Al 308.215 (ETA AQ-Radial-iFR)	8.866 ppm	807 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.431 ppm	10,038 cps
Ca 317.933 (ETA AQ-Radial-iFR)	261.561 ppm	71,240 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.455 ppm	1,438 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.043 ppm	142 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.460 ppm	1,710 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.423 ppm	4,238 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.748 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	93.921 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.417 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.338 ppm	84,245 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.920 ppm	20,317 cps
Na 589.592 (ETA AQ-Radial-iFR)	338.432 ppm	224,873 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.522 ppm	1,533 cps
K 766.490 (ETA AQ-Radial-iFR)	52.260 ppm	8,020 cps
Na 818.326 (ETA AQ-Radial-iFR)	336.604 ppm	6,211 cps

Label: 480-224872-C-3-APDS@10 #: 68
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:46:25 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	14.427 ppm	525 cps
As 189.042 (ETA AQ-Axial-iFR)	0.086 ppm	8 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.088 ppm	15 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.085 ppm	6 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.086 ppm	8 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.042 ppm	21 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.045 ppm	37 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.044 ppm	5 cps
B 208.959 (ETA AQ-Axial-iFR)	0.068 ppm	21 cps
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.044 ppm	6 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.277 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.717 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.044 ppm	25 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.043 ppm	54 cps
In 230.606 (ETA AQ-Axial-iFR)	105.149 %	624 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ni 231.604 (ETA AQ-Axial-iFR)	0.045 ppm	18 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.055 ppm	210 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.996 ppm	1,086 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.044 ppm	58 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.935 ppm	23 cps
Mg 279.079 (ETA AQ-Radial-iFR)	10.312 ppm	737 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.657 ppm	99 cps
V 292.402 (ETA AQ-Axial-iFR)	0.043 ppm	127 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.881 ppm	81 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.044 ppm	1,031 cps
Ca 317.933 (ETA AQ-Radial-iFR)	27.815 ppm	7,583 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.042 ppm	129 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.004 ppm	-4 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.049 ppm	177 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.044 ppm	441 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.506 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.144 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.236 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.244 ppm	8,780 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.095 ppm	2,099 cps
Na 589.592 (ETA AQ-Radial-iFR)	34.575 ppm	22,995 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.052 ppm	156 cps
K 766.490 (ETA AQ-Radial-iFR)	5.206 ppm	802 cps
Na 818.326 (ETA AQ-Radial-iFR)	33.306 ppm	614 cps

Label: 480-224872-C-3-B MS #: 69
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:48:19 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	156.826 ppm	5,679 cps
As 189.042 (ETA AQ-Axial-iFR)	0.959 ppm	100 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.028 ppm	173 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.995 ppm	91 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.955 ppm	85 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.492 ppm	244 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.460 ppm	370 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.512 ppm	52 cps
B 208.959 (ETA AQ-Axial-iFR)	0.740 ppm	215 cps
P 213.618 (ETA AQ-Axial-iFR)	10.419 ppm	978 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.514 ppm	67 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.578 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	93.605 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.509 ppm	300 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.516 ppm	635 cps
In 230.606 (ETA AQ-Axial-iFR)	100.870 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.510 ppm	219 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.604 ppm	2,328 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.693 ppm	6,200 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.486 ppm	635 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.273 ppm	127 cps
Mg 279.079 (ETA AQ-Radial-iFR)	88.088 ppm	6,297 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.033 ppm	984 cps
V 292.402 (ETA AQ-Axial-iFR)	0.503 ppm	1,498 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.220 ppm	476 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.510 ppm	11,881 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ca 317.933 (ETA AQ-Radial-iFR)	255.575 ppm	69,610 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.535 ppm	1,690 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.051 ppm	171 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.541 ppm	2,011 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.499 ppm	5,002 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.050 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.298 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.513 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.506 ppm	90,278 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.080 ppm	23,866 cps
Na 589.592 (ETA AQ-Radial-iFR)	333.262 ppm	221,438 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.606 ppm	1,779 cps
K 766.490 (ETA AQ-Radial-iFR)	33.181 ppm	5,093 cps
Na 818.326 (ETA AQ-Radial-iFR)	331.764 ppm	6,122 cps

Label: 480-224872-C-3-B MS@10 #: 70
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:50:12 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	15.718 ppm	572 cps
As 189.042 (ETA AQ-Axial-iFR)	0.099 ppm	9 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.104 ppm	18 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.100 ppm	7 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.096 ppm	9 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.050 ppm	25 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.052 ppm	42 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.052 ppm	6 cps
B 208.959 (ETA AQ-Axial-iFR)	0.076 ppm	23 cps
P 213.618 (ETA AQ-Axial-iFR)	1.041 ppm	95 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.052 ppm	7 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.071 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.580 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.052 ppm	30 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.051 ppm	64 cps
In 230.606 (ETA AQ-Axial-iFR)	104.905 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.054 ppm	22 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.064 ppm	246 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.606 ppm	662 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.052 ppm	68 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.587 ppm	15 cps
Mg 279.079 (ETA AQ-Radial-iFR)	8.836 ppm	632 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.694 ppm	104 cps
V 292.402 (ETA AQ-Axial-iFR)	0.052 ppm	152 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.514 ppm	48 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.053 ppm	1,229 cps
Ca 317.933 (ETA AQ-Radial-iFR)	27.158 ppm	7,404 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.049 ppm	153 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.005 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.057 ppm	209 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.052 ppm	522 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.899 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.158 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.981 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.263 ppm	9,457 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.112 ppm	2,469 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 589.592 (ETA AQ-Radial-iFR)	34.134 ppm	22,702 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.061 ppm	182 cps
K 766.490 (ETA AQ-Radial-iFR)	3.326 ppm	514 cps
Na 818.326 (ETA AQ-Radial-iFR)	32.943 ppm	607 cps

Label: 480-224872-C-3-C MSD #: 71
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:52:06 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	156.080 ppm	5,652 cps
As 189.042 (ETA AQ-Axial-iFR)	0.961 ppm	100 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.029 ppm	173 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.991 ppm	91 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.965 ppm	86 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.491 ppm	243 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.461 ppm	371 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.512 ppm	52 cps
B 208.959 (ETA AQ-Axial-iFR)	0.737 ppm	214 cps
P 213.618 (ETA AQ-Axial-iFR)	10.476 ppm	983 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.512 ppm	66 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.886 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.941 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.508 ppm	300 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.518 ppm	637 cps
In 230.606 (ETA AQ-Axial-iFR)	100.535 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.512 ppm	219 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.602 ppm	2,320 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.639 ppm	6,141 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.486 ppm	634 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.263 ppm	127 cps
Mg 279.079 (ETA AQ-Radial-iFR)	86.707 ppm	6,198 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.916 ppm	968 cps
V 292.402 (ETA AQ-Axial-iFR)	0.502 ppm	1,496 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.172 ppm	471 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.508 ppm	11,830 cps
Ca 317.933 (ETA AQ-Radial-iFR)	251.825 ppm	68,589 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.533 ppm	1,684 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.051 ppm	170 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.540 ppm	2,006 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.497 ppm	4,986 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.279 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	93.666 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.829 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.472 ppm	89,054 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.075 ppm	23,750 cps
Na 589.592 (ETA AQ-Radial-iFR)	326.667 ppm	217,056 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.605 ppm	1,774 cps
K 766.490 (ETA AQ-Radial-iFR)	32.852 ppm	5,043 cps
Na 818.326 (ETA AQ-Radial-iFR)	326.892 ppm	6,032 cps

Label: 480-224872-C-3-C MSD@10 #: 72
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 3:54:00 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	15.423 ppm	561 cps
As 189.042 (ETA AQ-Axial-iFR)	0.099 ppm	9 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.105 ppm	18 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.100 ppm	7 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.100 ppm	9 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.050 ppm	25 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.052 ppm	42 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.050 ppm	6 cps
B 208.959 (ETA AQ-Axial-iFR)	0.075 ppm	23 cps
P 213.618 (ETA AQ-Axial-iFR)	1.038 ppm	95 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.049 ppm	6 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.414 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.613 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.053 ppm	30 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.051 ppm	64 cps
In 230.606 (ETA AQ-Axial-iFR)	104.813 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.054 ppm	22 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.063 ppm	244 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.603 ppm	659 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.052 ppm	68 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.598 ppm	15 cps
Mg 279.079 (ETA AQ-Radial-iFR)	8.681 ppm	620 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.680 ppm	102 cps
V 292.402 (ETA AQ-Axial-iFR)	0.052 ppm	152 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.521 ppm	48 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.053 ppm	1,225 cps
Ca 317.933 (ETA AQ-Radial-iFR)	26.755 ppm	7,294 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.049 ppm	153 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.057 ppm	209 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.052 ppm	522 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.181 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.097 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.880 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.258 ppm	9,272 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.112 ppm	2,466 cps
Na 589.592 (ETA AQ-Radial-iFR)	33.581 ppm	22,335 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.060 ppm	181 cps
K 766.490 (ETA AQ-Radial-iFR)	3.293 ppm	509 cps
Na 818.326 (ETA AQ-Radial-iFR)	32.364 ppm	596 cps

Label: CCV-8122457 #: 73
Analysis Type: QC Analysis started at: 10/30/2024 3:55:53 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.440 ppm	97.759 %
As 189.042 (ETA AQ-Axial-iFR)	0.917 ppm	91.656 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.968 ppm	96.828 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.918 ppm	91.843 %
Se 196.090 (ETA AQ-Axial-iFR)	0.921 ppm	92.121 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.934 ppm	93.369 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.007 ppm	100.689 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.956 ppm	95.581 %
B 208.959 (ETA AQ-Axial-iFR)	0.985 ppm	98.450 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
P 213.618 (ETA AQ-Axial-iFR)	24.950 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.955 ppm	95.480 %
Y 224.306 (ETA AQ-Axial-iFR)	104.109 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.148 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.971 ppm	97.057 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.965 ppm	96.494 %
In 230.606 (ETA AQ-Axial-iFR)	107.714 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.969 ppm	96.919 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.957 ppm	95.747 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.280 ppm	100.560 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.991 ppm	99.059 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.510 ppm	97.019 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.848 ppm	97.697 %
Si 288.158 (ETA AQ-Radial-iFR)	9.510 ppm	95.104 %
V 292.402 (ETA AQ-Axial-iFR)	0.972 ppm	97.229 %
Al 308.215 (ETA AQ-Radial-iFR)	49.096 ppm	98.192 %
Be 313.042 (ETA AQ-Radial-iFR)	0.970 ppm	96.969 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.369 ppm	100.738 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.952 ppm	95.224 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.970 ppm	97.042 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.990 ppm	99.043 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.964 ppm	96.369 %
Y 360.073 (ETA AQ-Axial-iFR)	104.098 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.779 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.765 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.965 ppm	96.457 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.986 ppm	98.646 %
Na 589.592 (ETA AQ-Radial-iFR)	49.939 ppm	99.878 %
Li 670.784 (ETA AQ-Radial-iFR)	0.993 ppm	99.325 %
K 766.490 (ETA AQ-Radial-iFR)	50.416 ppm	100.833 %
Na 818.326 (ETA AQ-Radial-iFR)	47.910 ppm	95.820 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	888 cps
As 189.042 (ETA AQ-Axial-iFR)	95 cps
Sn 189.989 (ETA AQ-Axial-iFR)	163 cps
Tl 190.856 (ETA AQ-Axial-iFR)	84 cps
Se 196.090 (ETA AQ-Axial-iFR)	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	462 cps
Zn 206.200 (ETA AQ-Axial-iFR)	787 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	288 cps
P 213.618 (ETA AQ-Axial-iFR)	2,345 cps
Pb 220.353 (ETA AQ-Axial-iFR)	123 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	573 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,184 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	417 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,677 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,721 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,292 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,155 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,492 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,329 cps
V 292.402 (ETA AQ-Axial-iFR)	2,899 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,464 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Be 313.042 (ETA AQ-Radial-iFR)	22,581 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,730 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,010 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,646 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,686 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,656 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,751 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,790 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,203 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,912 cps
K 766.490 (ETA AQ-Radial-iFR)	7,737 cps
Na 818.326 (ETA AQ-Radial-iFR)	883 cps

Label: CCB-8122474 #: 74
Analysis Type: QC Analysis started at: 10/30/2024 3:57:48 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.002 ppm	0.802 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	15.026 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	-2.665 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	12.638 %
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	7.952 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	-4.580 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-3.237 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	-9.039 %
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	17.340 %
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-3.175 %
Y 224.306 (ETA AQ-Axial-iFR)	102.145 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.229 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1.801 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	0.688 %
In 230.606 (ETA AQ-Axial-iFR)	103.206 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	5.961 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.011 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.001 ppm	0.143 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	10.076 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.012 ppm	24.670 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.580 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.016 ppm	-3.214 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.048 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.006 ppm	-2.832 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-1.272 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.004 ppm	-0.779 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	4.327 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	1.051 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	12.647 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.004 %
Y 360.073 (ETA AQ-Axial-iFR)	101.979 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.112 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.020 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.171 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2.604 %
Na 589.592 (ETA AQ-Radial-iFR)	0.039 ppm	3.932 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-2.277 %
K 766.490 (ETA AQ-Radial-iFR)	0.067 ppm	13.480 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.172 ppm	-17.232 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	50 cps
Li 670.784 (ETA AQ-Radial-iFR)	1 cps
K 766.490 (ETA AQ-Radial-iFR)	14 cps
Na 818.326 (ETA AQ-Radial-iFR)	-4 cps

Label: CCVL-8122384 #: 75
Analysis Type: QC Analysis started at: 10/30/2024 3:59:42 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.196 ppm	98.128 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	97.788 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.009 ppm	92.151 %

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Analyte (Measure Mode)	Concentration average	Recovery Percentage
Tl 190.856 (ETA AQ-Axial-iFR)	0.022 ppm	107.516 %
Se 196.090 (ETA AQ-Axial-iFR)	0.024 ppm	95.162 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.326 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	104.913 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.019 ppm	95.759 %
B 208.959 (ETA AQ-Axial-iFR)	0.021 ppm	106.390 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	71.238 %
Y 224.306 (ETA AQ-Axial-iFR)	102.318 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.825 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	95.564 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	86.125 %
In 230.606 (ETA AQ-Axial-iFR)	103.625 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	108.354 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	91.710 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.197 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	99.989 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.067 ppm	134.905 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.188 ppm	94.222 %
Si 288.158 (ETA AQ-Radial-iFR)	0.441 ppm	88.105 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	87.478 %
Al 308.215 (ETA AQ-Radial-iFR)	0.189 ppm	94.745 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.091 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.488 ppm	97.571 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	92.141 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	93.489 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	109.701 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	88.945 %
Y 360.073 (ETA AQ-Axial-iFR)	102.153 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.120 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.944 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	92.756 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	102.649 %
Na 589.592 (ETA AQ-Radial-iFR)	1.025 ppm	102.485 %
Li 670.784 (ETA AQ-Radial-iFR)	0.030 ppm	98.686 %
K 766.490 (ETA AQ-Radial-iFR)	0.552 ppm	110.442 %
Na 818.326 (ETA AQ-Radial-iFR)	0.754 ppm	75.397 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	8 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	10 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	13 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	140 cps
Cu 327.396 (ETA AQ-Axial-iFR)	26 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	160 cps
Ba 455.403 (ETA AQ-Radial-iFR)	46 cps
Na 589.592 (ETA AQ-Radial-iFR)	705 cps
Li 670.784 (ETA AQ-Radial-iFR)	90 cps
K 766.490 (ETA AQ-Radial-iFR)	88 cps
Na 818.326 (ETA AQ-Radial-iFR)	13 cps

Label: MB 480-730303/1-A #: 76
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:07:08 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.006 ppm	4 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.413 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.127 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.142 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.001 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.005 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.016 ppm	5 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.012 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.599 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.431 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.187 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.025 ppm	40 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
K 766.490 (ETA AQ-Radial-iFR)	0.028 ppm	8 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.193 ppm	-5 cps

Label: LCS 480-730303/2-A #: 77
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:09:05 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	4.796 ppm	177 cps
As 189.042 (ETA AQ-Axial-iFR)	0.922 ppm	96 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.002 ppm	168 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.927 ppm	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.913 ppm	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.480 ppm	238 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.506 ppm	396 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.497 ppm	50 cps
B 208.959 (ETA AQ-Axial-iFR)	0.501 ppm	147 cps
P 213.618 (ETA AQ-Axial-iFR)	9.893 ppm	928 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.494 ppm	64 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.044 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.382 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.502 ppm	296 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.491 ppm	604 cps
In 230.606 (ETA AQ-Axial-iFR)	104.360 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.510 ppm	219 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.490 ppm	1,889 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.360 ppm	5,838 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.496 ppm	647 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.045 ppm	122 cps
Mg 279.079 (ETA AQ-Radial-iFR)	24.679 ppm	1,764 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.954 ppm	142 cps
V 292.402 (ETA AQ-Axial-iFR)	0.500 ppm	1,491 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.023 ppm	458 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.508 ppm	11,818 cps
Ca 317.933 (ETA AQ-Radial-iFR)	25.864 ppm	7,054 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.471 ppm	1,486 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.049 ppm	164 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.535 ppm	1,988 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.491 ppm	4,920 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.328 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.063 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.696 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.504 ppm	18,145 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.018 ppm	22,496 cps
Na 589.592 (ETA AQ-Radial-iFR)	25.487 ppm	16,957 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.507 ppm	1,488 cps
K 766.490 (ETA AQ-Radial-iFR)	25.551 ppm	3,923 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 818.326 (ETA AQ-Radial-iFR)	24.417 ppm	450 cps

Label: 480-224902-D-1-O #: 78
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:10:59 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	50.968 ppm	1,848 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.050 ppm	16 cps
P 213.618 (ETA AQ-Axial-iFR)	0.014 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.453 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.903 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.782 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.579 ppm	6,037 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.056 ppm	63 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.046 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	23.894 ppm	1,708 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.276 ppm	738 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.005 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	118.768 ppm	32,351 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.185 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.541 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.242 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.448 ppm	16,142 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.057 ppm	1,268 cps
Na 589.592 (ETA AQ-Radial-iFR)	11.525 ppm	7,681 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.017 ppm	53 cps
K 766.490 (ETA AQ-Radial-iFR)	2.475 ppm	383 cps
Na 818.326 (ETA AQ-Radial-iFR)	10.931 ppm	201 cps

Label: 480-224902-D-1-ASD@5 #: 79
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:12:53 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9.952 ppm	364 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
As 189.042 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.011 ppm	4 cps
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.635 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.895 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.642 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.319 ppm	1,217 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.015 ppm	18 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.005 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	4.777 ppm	341 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.019 ppm	148 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.005 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	24.012 ppm	6,547 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.164 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.810 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.898 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.091 ppm	3,260 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.012 ppm	255 cps
Na 589.592 (ETA AQ-Radial-iFR)	2.282 ppm	1,540 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.003 ppm	12 cps
K 766.490 (ETA AQ-Radial-iFR)	0.506 ppm	81 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.072 ppm	37 cps

Label: 480-224902-D-1-APDs #: 80
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:14:47 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	51.751 ppm	1,876 cps
As 189.042 (ETA AQ-Axial-iFR)	0.911 ppm	95 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.972 ppm	163 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.928 ppm	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.904 ppm	81 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.469 ppm	232 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.467 ppm	367 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.489 ppm	49 cps
B 208.959 (ETA AQ-Axial-iFR)	0.552 ppm	162 cps
P 213.618 (ETA AQ-Axial-iFR)	0.017 ppm	-1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.485 ppm	63 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Axial-iFR)	100.076 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.802 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.484 ppm	285 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.488 ppm	600 cps
In 230.606 (ETA AQ-Axial-iFR)	102.946 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.492 ppm	211 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.025 ppm	7,757 cps
Fe 259.940 (ETA AQ-Axial-iFR)	10.141 ppm	11,041 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.469 ppm	612 cps
Fe 271.441 (ETA AQ-Radial-iFR)	9.590 ppm	230 cps
Mg 279.079 (ETA AQ-Radial-iFR)	72.818 ppm	5,205 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.286 ppm	880 cps
V 292.402 (ETA AQ-Axial-iFR)	0.481 ppm	1,434 cps
Al 308.215 (ETA AQ-Radial-iFR)	9.780 ppm	890 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.485 ppm	11,291 cps
Ca 317.933 (ETA AQ-Radial-iFR)	165.965 ppm	45,207 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.487 ppm	1,539 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.048 ppm	159 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.518 ppm	1,925 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.476 ppm	4,769 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.302 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.792 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.725 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.935 ppm	33,690 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.042 ppm	23,022 cps
Na 589.592 (ETA AQ-Radial-iFR)	61.856 ppm	41,120 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.520 ppm	1,525 cps
K 766.490 (ETA AQ-Radial-iFR)	52.973 ppm	8,129 cps
Na 818.326 (ETA AQ-Radial-iFR)	59.547 ppm	1,098 cps

Label: 480-224902-D-1-B MS #: 81
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:16:41 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	56.657 ppm	2,054 cps
As 189.042 (ETA AQ-Axial-iFR)	0.935 ppm	97 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.001 ppm	168 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.936 ppm	86 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.923 ppm	83 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.481 ppm	238 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.486 ppm	381 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.504 ppm	51 cps
B 208.959 (ETA AQ-Axial-iFR)	0.567 ppm	166 cps
P 213.618 (ETA AQ-Axial-iFR)	10.040 ppm	942 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.496 ppm	64 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.253 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.055 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.494 ppm	291 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.496 ppm	611 cps
In 230.606 (ETA AQ-Axial-iFR)	103.318 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.504 ppm	216 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.052 ppm	7,863 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.372 ppm	5,851 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.488 ppm	637 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.018 ppm	121 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mg 279.079 (ETA AQ-Radial-iFR)	48.855 ppm	3,492 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.263 ppm	877 cps
V 292.402 (ETA AQ-Axial-iFR)	0.494 ppm	1,472 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.056 ppm	461 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.499 ppm	11,620 cps
Ca 317.933 (ETA AQ-Radial-iFR)	143.895 ppm	39,197 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.496 ppm	1,566 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.050 ppm	166 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.531 ppm	1,972 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.488 ppm	4,897 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.303 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.982 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.975 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.951 ppm	34,251 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.072 ppm	23,690 cps
Na 589.592 (ETA AQ-Radial-iFR)	37.571 ppm	24,986 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.534 ppm	1,567 cps
K 766.490 (ETA AQ-Radial-iFR)	28.523 ppm	4,379 cps
Na 818.326 (ETA AQ-Radial-iFR)	35.697 ppm	658 cps

Label: 480-224902-D-1-C MSD #: 82
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:18:34 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	55.326 ppm	2,006 cps
As 189.042 (ETA AQ-Axial-iFR)	0.928 ppm	97 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.999 ppm	168 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.935 ppm	86 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.924 ppm	83 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.479 ppm	237 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.484 ppm	379 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.499 ppm	50 cps
B 208.959 (ETA AQ-Axial-iFR)	0.562 ppm	164 cps
P 213.618 (ETA AQ-Axial-iFR)	10.002 ppm	938 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.495 ppm	64 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.108 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.907 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.495 ppm	292 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.494 ppm	608 cps
In 230.606 (ETA AQ-Axial-iFR)	103.106 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.502 ppm	215 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.012 ppm	7,709 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.365 ppm	5,843 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.486 ppm	634 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.025 ppm	121 cps
Mg 279.079 (ETA AQ-Radial-iFR)	48.043 ppm	3,434 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.134 ppm	859 cps
V 292.402 (ETA AQ-Axial-iFR)	0.494 ppm	1,472 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.054 ppm	460 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.498 ppm	11,603 cps
Ca 317.933 (ETA AQ-Radial-iFR)	140.578 ppm	38,293 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.493 ppm	1,558 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.049 ppm	164 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.530 ppm	1,971 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.488 ppm	4,888 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Axial-iFR)	103.145 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.396 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.273 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.941 ppm	33,904 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.070 ppm	23,629 cps
Na 589.592 (ETA AQ-Radial-iFR)	37.171 ppm	24,720 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.530 ppm	1,555 cps
K 766.490 (ETA AQ-Radial-iFR)	28.338 ppm	4,350 cps
Na 818.326 (ETA AQ-Radial-iFR)	35.537 ppm	655 cps

Label: 480-224902-D-2-A #: 83
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:20:28 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3.626 ppm	135 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.103 ppm	81 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.040 ppm	13 cps
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.300 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.177 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.879 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.020 ppm	3,900 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.231 ppm	254 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.208 ppm	6 cps
Mg 279.079 (ETA AQ-Radial-iFR)	10.992 ppm	786 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.599 ppm	921 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	69.203 ppm	18,853 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.340 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.119 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.084 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.248 ppm	8,930 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.124 ppm	2,741 cps
Na 589.592 (ETA AQ-Radial-iFR)	11.393 ppm	7,593 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.012 ppm	38 cps
K 766.490 (ETA AQ-Radial-iFR)	1.434 ppm	223 cps
Na 818.326 (ETA AQ-Radial-iFR)	10.736 ppm	197 cps

Label: 480-224902-D-3-A #: 84
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:22:22 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	8.386 ppm	307 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.098 ppm	29 cps
P 213.618 (ETA AQ-Axial-iFR)	0.010 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.295 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.620 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.685 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.162 ppm	626 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.015 ppm	19 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.003 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	12.426 ppm	888 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.125 ppm	855 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.018 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	77.126 ppm	21,011 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	4 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.081 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.906 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.849 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.703 ppm	25,333 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.498 ppm	11,010 cps
Na 589.592 (ETA AQ-Radial-iFR)	20.100 ppm	13,378 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.031 ppm	93 cps
K 766.490 (ETA AQ-Radial-iFR)	3.740 ppm	577 cps
Na 818.326 (ETA AQ-Radial-iFR)	19.161 ppm	353 cps

Label: CCV-8122457 #: 85
Analysis Type: QC Analysis started at: 10/30/2024 4:24:16 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.297 ppm	97.189 %
As 189.042 (ETA AQ-Axial-iFR)	0.911 ppm	91.095 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.963 ppm	96.285 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Tl 190.856 (ETA AQ-Axial-iFR)	0.919 ppm	91.900 %
Se 196.090 (ETA AQ-Axial-iFR)	0.910 ppm	91.016 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.934 ppm	93.355 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.000 ppm	99.953 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.954 ppm	95.424 %
B 208.959 (ETA AQ-Axial-iFR)	0.981 ppm	98.066 %
P 213.618 (ETA AQ-Axial-iFR)	24.761 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.953 ppm	95.275 %
Y 224.306 (ETA AQ-Axial-iFR)	103.846 %	
Y 224.306 (ETA AQ-Radial-iFR)	95.909 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.968 ppm	96.793 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.966 ppm	96.646 %
In 230.606 (ETA AQ-Axial-iFR)	107.456 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.966 ppm	96.638 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.957 ppm	95.735 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.445 ppm	100.891 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.985 ppm	98.474 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.751 ppm	97.502 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.969 ppm	97.937 %
Si 288.158 (ETA AQ-Radial-iFR)	9.527 ppm	95.267 %
V 292.402 (ETA AQ-Axial-iFR)	0.971 ppm	97.090 %
Al 308.215 (ETA AQ-Radial-iFR)	49.231 ppm	98.462 %
Be 313.042 (ETA AQ-Radial-iFR)	0.969 ppm	96.947 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.415 ppm	100.830 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.955 ppm	95.475 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.968 ppm	96.804 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.988 ppm	98.776 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.959 ppm	95.928 %
Y 360.073 (ETA AQ-Axial-iFR)	104.268 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.660 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.496 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.966 ppm	96.586 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.989 ppm	98.876 %
Na 589.592 (ETA AQ-Radial-iFR)	50.142 ppm	100.284 %
Li 670.784 (ETA AQ-Radial-iFR)	0.997 ppm	99.701 %
K 766.490 (ETA AQ-Radial-iFR)	50.405 ppm	100.811 %
Na 818.326 (ETA AQ-Radial-iFR)	48.191 ppm	96.382 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	883 cps
As 189.042 (ETA AQ-Axial-iFR)	95 cps
Sn 189.989 (ETA AQ-Axial-iFR)	162 cps
Tl 190.856 (ETA AQ-Axial-iFR)	84 cps
Se 196.090 (ETA AQ-Axial-iFR)	81 cps
Mo 202.030 (ETA AQ-Axial-iFR)	462 cps
Zn 206.200 (ETA AQ-Axial-iFR)	782 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	287 cps
P 213.618 (ETA AQ-Axial-iFR)	2,327 cps
Pb 220.353 (ETA AQ-Axial-iFR)	123 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	571 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,185 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	415 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,676 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,901 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Cr 267.716 (ETA AQ-Axial-iFR)	1,284 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,160 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,500 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,331 cps
V 292.402 (ETA AQ-Axial-iFR)	2,895 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,476 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,576 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,743 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,018 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,637 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,676 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,612 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,797 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,841 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,338 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,923 cps
K 766.490 (ETA AQ-Radial-iFR)	7,735 cps
Na 818.326 (ETA AQ-Radial-iFR)	888 cps

Label: CCB-8122474 #: 86
Analysis Type: QC Analysis started at: 10/30/2024 4:26:11 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.008 ppm	-4.089 %
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	19.369 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-5.428 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	17.501 %
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	6.258 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-9.019 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.754 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	-1.905 %
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	13.244 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	-0.003 ppm	-26.536 %
Y 224.306 (ETA AQ-Axial-iFR)	101.979 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.919 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-11.780 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-8.969 %
In 230.606 (ETA AQ-Axial-iFR)	103.566 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-3.937 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.004 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.154 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	-3.158 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.005 ppm	10.298 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.008 ppm	3.833 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.023 ppm	-4.587 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.041 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.015 ppm	-7.350 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	1.809 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.003 ppm	-0.580 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	5.680 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-0.719 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	14.140 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.012 %
Y 360.073 (ETA AQ-Axial-iFR)	102.044 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.838 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.693 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.310 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3.834 %
Na 589.592 (ETA AQ-Radial-iFR)	0.005 ppm	0.492 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-1.872 %
K 766.490 (ETA AQ-Radial-iFR)	0.035 ppm	6.962 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.155 ppm	-15.528 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	4 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	-2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	27 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	9 cps
Na 818.326 (ETA AQ-Radial-iFR)	-4 cps

Label: CCVL-8122384 #: 87
Analysis Type: QC Analysis started at: 10/30/2024 4:28:05 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.181 ppm	90.458 %
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	103.954 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.008 ppm	83.254 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.021 ppm	106.816 %
Se 196.090 (ETA AQ-Axial-iFR)	0.024 ppm	96.941 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.390 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	102.228 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.018 ppm	90.317 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	101.424 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.008 ppm	82.781 %
Y 224.306 (ETA AQ-Axial-iFR)	102.781 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.013 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	101.749 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	74.843 %
In 230.606 (ETA AQ-Axial-iFR)	103.990 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	109.388 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	94.897 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.350 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	100.170 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.064 ppm	128.534 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.195 ppm	97.373 %
Si 288.158 (ETA AQ-Radial-iFR)	0.433 ppm	86.698 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	87.790 %
Al 308.215 (ETA AQ-Radial-iFR)	0.187 ppm	93.638 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	92.751 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.489 ppm	97.722 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	92.932 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	92.934 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.006 ppm	110.076 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	89.422 %
Y 360.073 (ETA AQ-Axial-iFR)	102.699 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.757 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.618 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	93.738 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	101.833 %
Na 589.592 (ETA AQ-Radial-iFR)	1.000 ppm	100.048 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	95.480 %
K 766.490 (ETA AQ-Radial-iFR)	0.519 ppm	103.873 %
Na 818.326 (ETA AQ-Radial-iFR)	0.771 ppm	77.133 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	67 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	40 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	26 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	162 cps
Ba 455.403 (ETA AQ-Radial-iFR)	46 cps
Na 589.592 (ETA AQ-Radial-iFR)	689 cps
Li 670.784 (ETA AQ-Radial-iFR)	87 cps
K 766.490 (ETA AQ-Radial-iFR)	83 cps
Na 818.326 (ETA AQ-Radial-iFR)	13 cps

Label: 480-224902-D-4-A #: 88
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:30:01 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	188.110 ppm	6,811 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.008 ppm	7 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.023 ppm	8 cps
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.554 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.152 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	102.806 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.223 ppm	852 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.836 ppm	912 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.773 ppm	19 cps
Mg 279.079 (ETA AQ-Radial-iFR)	36.005 ppm	2,574 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.275 ppm	876 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Al 308.215 (ETA AQ-Radial-iFR)	0.012 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	296.432 ppm	80,733 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.001 ppm	-2 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.232 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.150 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.961 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.634 ppm	22,845 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.020 ppm	453 cps
Na 589.592 (ETA AQ-Radial-iFR)	14.786 ppm	9,848 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.021 ppm	64 cps
K 766.490 (ETA AQ-Radial-iFR)	2.001 ppm	310 cps
Na 818.326 (ETA AQ-Radial-iFR)	13.897 ppm	255 cps

Label: 480-224902-D-5-A #: 89
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:31:55 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	39.463 ppm	1,432 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	0.020 ppm	-1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.487 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.569 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.955 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.001 ppm	3 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.014 ppm	18 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	12.704 ppm	908 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.372 ppm	889 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.004 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	121.666 ppm	33,140 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.936 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.811 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.700 %	3,148 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Sr 407.771 (ETA AQ-Radial-iFR)	0.245 ppm	8,804 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.056 ppm	1,245 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.947 ppm	2,646 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.008 ppm	26 cps
K 766.490 (ETA AQ-Radial-iFR)	0.783 ppm	124 cps
Na 818.326 (ETA AQ-Radial-iFR)	3.556 ppm	65 cps

Label: 480-224902-D-6-A #: 90
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:33:49 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	39.286 ppm	1,425 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	0.008 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.680 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.061 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.929 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.002 ppm	10 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.139 ppm	154 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.117 ppm	3 cps
Mg 279.079 (ETA AQ-Radial-iFR)	12.687 ppm	907 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.370 ppm	889 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.002 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	121.569 ppm	33,114 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.012 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.440 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.250 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.243 ppm	8,757 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.056 ppm	1,240 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.951 ppm	2,649 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.008 ppm	26 cps
K 766.490 (ETA AQ-Radial-iFR)	0.765 ppm	121 cps
Na 818.326 (ETA AQ-Radial-iFR)	3.634 ppm	66 cps

Label: 480-224902-D-7-A #: 91
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:35:43 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	77.204 ppm	2,797 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.014 ppm	12 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.038 ppm	12 cps
P 213.618 (ETA AQ-Axial-iFR)	0.008 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.144 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.008 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.596 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.029 ppm	110 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.008 ppm	11 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.024 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	26.403 ppm	1,887 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.127 ppm	579 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.006 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	181.559 ppm	49,450 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.903 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.865 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.853 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.420 ppm	15,136 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.029 ppm	641 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.095 ppm	2,081 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.007 ppm	23 cps
K 766.490 (ETA AQ-Radial-iFR)	1.496 ppm	233 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.813 ppm	51 cps

Label: 480-224902-D-8-A #: 92
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:37:37 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.019 ppm	4 cps
As 189.042 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.013 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.077 ppm	2 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.883 ppm	252 cps
P 213.618 (ETA AQ-Axial-iFR)	0.078 ppm	5 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.655 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	90.579 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
In 230.606 (ETA AQ-Axial-iFR)	93.637 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.228 ppm	913 cps
Fe 259.940 (ETA AQ-Axial-iFR)	2.109 ppm	2,297 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2.054 ppm	49 cps
Mg 279.079 (ETA AQ-Radial-iFR)	21.643 ppm	1,547 cps
Si 288.158 (ETA AQ-Radial-iFR)	2.524 ppm	357 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	103.397 ppm	28,165 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	4 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.193 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	89.775 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	89.423 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	8.030 ppm	289,341 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.316 ppm	51,157 cps
Na 589.592 (ETA AQ-Radial-iFR)	1,817.212 ppm	1,207,350 cps
Li 670.784 (ETA AQ-Radial-iFR)	3.399 ppm	9,958 cps
K 766.490 (ETA AQ-Radial-iFR)	24.297 ppm	3,730 cps
Na 818.326 (ETA AQ-Radial-iFR)	2,226.490 ppm	41,089 cps

Label: 480-224902-D-9-A #: 93
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:39:31 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	6.191 ppm	227 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.171 ppm	50 cps
P 213.618 (ETA AQ-Axial-iFR)	0.029 ppm	0 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.292 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.153 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	105.333 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mn 257.610 (ETA AQ-Radial-iFR)	0.006 ppm	24 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.058 ppm	66 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.057 ppm	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	9.581 ppm	685 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.467 ppm	626 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.040 ppm	5 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	23.591 ppm	6,432 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	15 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.406 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.016 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.807 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.690 ppm	24,868 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.090 ppm	1,996 cps
Na 589.592 (ETA AQ-Radial-iFR)	44.038 ppm	29,282 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.036 ppm	109 cps
K 766.490 (ETA AQ-Radial-iFR)	4.775 ppm	736 cps
Na 818.326 (ETA AQ-Radial-iFR)	42.659 ppm	786 cps

Label: 480-224902-D-10-A #: 94
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:41:25 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	6.308 ppm	232 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.098 ppm	29 cps
P 213.618 (ETA AQ-Axial-iFR)	0.071 ppm	4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.149 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.173 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	104.378 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.026 ppm	100 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.072 ppm	81 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.086 ppm	3 cps
Mg 279.079 (ETA AQ-Radial-iFR)	6.366 ppm	455 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.450 ppm	762 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.029 ppm	4 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	37.255 ppm	10,153 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	11 cps
Y 360.073 (ETA AQ-Axial-iFR)	102.571 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.701 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.224 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.689 ppm	24,822 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.074 ppm	1,634 cps
Na 589.592 (ETA AQ-Radial-iFR)	18.680 ppm	12,435 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.025 ppm	76 cps
K 766.490 (ETA AQ-Radial-iFR)	11.902 ppm	1,829 cps
Na 818.326 (ETA AQ-Radial-iFR)	17.806 ppm	328 cps

Label: 480-224902-D-11-A #: 95
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:43:19 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	101.033 ppm	3,660 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.005 ppm	5 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.051 ppm	16 cps
P 213.618 (ETA AQ-Axial-iFR)	0.010 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.569 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	93.458 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	102.203 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.408 ppm	1,559 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.429 ppm	469 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.414 ppm	11 cps
Mg 279.079 (ETA AQ-Radial-iFR)	33.098 ppm	2,366 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.320 ppm	1,021 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.010 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	227.021 ppm	61,831 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.001 ppm	-2 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.775 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.595 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.235 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.576 ppm	20,755 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.033 ppm	723 cps
Na 589.592 (ETA AQ-Radial-iFR)	10.115 ppm	6,745 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Li 670.784 (ETA AQ-Radial-iFR)	0.020 ppm	61 cps
K 766.490 (ETA AQ-Radial-iFR)	3.252 ppm	502 cps
Na 818.326 (ETA AQ-Radial-iFR)	9.449 ppm	173 cps

Label: 480-224902-D-12-A #: 96
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:45:14 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	5.013 ppm	185 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.003 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.186 ppm	54 cps
P 213.618 (ETA AQ-Axial-iFR)	0.012 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.169 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.276 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	105.894 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.020 ppm	79 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.041 ppm	47 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.024 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.855 ppm	61 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.837 ppm	677 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.023 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	5.370 ppm	1,470 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	17 cps
Y 360.073 (ETA AQ-Axial-iFR)	103.908 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.251 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.661 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.245 ppm	8,838 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.207 ppm	4,574 cps
Na 589.592 (ETA AQ-Radial-iFR)	103.426 ppm	68,739 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.102 ppm	303 cps
K 766.490 (ETA AQ-Radial-iFR)	3.850 ppm	594 cps
Na 818.326 (ETA AQ-Radial-iFR)	101.209 ppm	1,867 cps

Label: CCV-8122457 #: 99
Analysis Type: QC Analysis started at: 10/30/2024 4:53:06 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	26.567 ppm	106.269 %
As 189.042 (ETA AQ-Axial-iFR)	0.972 ppm	97.166 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.974 ppm	97.405 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.925 ppm	92.486 %
Se 196.090 (ETA AQ-Axial-iFR)	1.001 ppm	100.128 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.935 ppm	93.544 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.028 ppm	102.845 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.999 ppm	99.918 %
B 208.959 (ETA AQ-Axial-iFR)	1.039 ppm	103.928 %
P 213.618 (ETA AQ-Axial-iFR)	27.186 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.974 ppm	97.397 %
Y 224.306 (ETA AQ-Axial-iFR)	100.584 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.840 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.974 ppm	97.425 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.996 ppm	99.571 %
In 230.606 (ETA AQ-Axial-iFR)	104.111 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.982 ppm	98.162 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.956 ppm	95.642 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.731 ppm	101.462 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.995 ppm	99.458 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.651 ppm	97.302 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.985 ppm	97.970 %
Si 288.158 (ETA AQ-Radial-iFR)	9.515 ppm	95.153 %
V 292.402 (ETA AQ-Axial-iFR)	0.979 ppm	97.862 %
Al 308.215 (ETA AQ-Radial-iFR)	49.384 ppm	98.768 %
Be 313.042 (ETA AQ-Radial-iFR)	0.977 ppm	97.655 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.474 ppm	100.949 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.969 ppm	96.865 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.993 ppm	99.325 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.991 ppm	99.134 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.963 ppm	96.346 %
Y 360.073 (ETA AQ-Axial-iFR)	100.397 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.613 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.911 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.968 ppm	96.808 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.996 ppm	99.633 %
Na 589.592 (ETA AQ-Radial-iFR)	49.997 ppm	99.994 %
Li 670.784 (ETA AQ-Radial-iFR)	0.996 ppm	99.573 %
K 766.490 (ETA AQ-Radial-iFR)	50.426 ppm	100.851 %
Na 818.326 (ETA AQ-Radial-iFR)	48.347 ppm	96.694 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	965 cps
As 189.042 (ETA AQ-Axial-iFR)	101 cps
Sn 189.989 (ETA AQ-Axial-iFR)	164 cps
Tl 190.856 (ETA AQ-Axial-iFR)	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	89 cps
Mo 202.030 (ETA AQ-Axial-iFR)	463 cps
Zn 206.200 (ETA AQ-Axial-iFR)	804 cps
Sb 206.833 (ETA AQ-Axial-iFR)	101 cps
B 208.959 (ETA AQ-Axial-iFR)	304 cps
P 213.618 (ETA AQ-Axial-iFR)	2,555 cps
Pb 220.353 (ETA AQ-Axial-iFR)	126 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	575 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,221 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Ni 231.604 (ETA AQ-Axial-iFR)	422 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,673 cps
Fe 259.940 (ETA AQ-Axial-iFR)	55,212 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,297 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,158 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,501 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,330 cps
V 292.402 (ETA AQ-Axial-iFR)	2,918 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,490 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,741 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,759 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,062 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,732 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,689 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,654 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,877 cps
Ba 455.403 (ETA AQ-Radial-iFR)	22,008 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,241 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,919 cps
K 766.490 (ETA AQ-Radial-iFR)	7,738 cps
Na 818.326 (ETA AQ-Radial-iFR)	891 cps

Label: CCB-7933423 #: 100
Analysis Type: QC Analysis started at: 10/30/2024 4:55:04 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.010 ppm	-4.827 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	13.240 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	-4.296 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	16.049 %
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	3.849 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-7.437 %
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	-5.245 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	-8.411 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	9.773 %
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0.662 %
Y 224.306 (ETA AQ-Axial-iFR)	101.337 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.958 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-6.443 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-3.922 %
In 230.606 (ETA AQ-Axial-iFR)	103.127 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	3.479 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.002 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.234 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	11.400 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.008 ppm	16.344 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.552 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.016 ppm	-3.207 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.027 %
Al 308.215 (ETA AQ-Radial-iFR)	0.002 ppm	0.834 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-1.217 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	-0.047 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	2.835 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-1.162 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	12.573 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.012 %
Y 360.073 (ETA AQ-Axial-iFR)	101.323 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.853 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.551 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.000 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	6.442 %
Na 589.592 (ETA AQ-Radial-iFR)	0.010 ppm	1.047 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-1.712 %
K 766.490 (ETA AQ-Radial-iFR)	0.038 ppm	7.539 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.093 ppm	-9.340 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	4 cps
Na 589.592 (ETA AQ-Radial-iFR)	31 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	9 cps
Na 818.326 (ETA AQ-Radial-iFR)	-3 cps

Basic Sample Report
10/31/2024 7:39:06 AM

Label: CCVL-8122384 #: 101
Analysis Type: QC Analysis started at: 10/30/2024 4:56:58 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.175 ppm	87.610 %
As 189.042 (ETA AQ-Axial-iFR)	0.018 ppm	117.645 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	95.153 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.020 ppm	98.624 %
Se 196.090 (ETA AQ-Axial-iFR)	0.022 ppm	86.998 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	83.521 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	97.855 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.016 ppm	79.156 %
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	95.233 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	86.030 %
Y 224.306 (ETA AQ-Axial-iFR)	102.679 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.241 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	92.098 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	86.405 %
In 230.606 (ETA AQ-Axial-iFR)	104.506 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	111.071 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	98.492 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.669 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	102.285 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.041 ppm	81.852 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.199 ppm	99.374 %
Si 288.158 (ETA AQ-Radial-iFR)	0.436 ppm	87.266 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	86.801 %
Al 308.215 (ETA AQ-Radial-iFR)	0.178 ppm	89.225 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.876 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.491 ppm	98.150 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	90.685 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	91.869 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	109.601 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	89.333 %
Y 360.073 (ETA AQ-Axial-iFR)	102.861 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.665 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.292 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	94.397 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	103.743 %
Na 589.592 (ETA AQ-Radial-iFR)	1.001 ppm	100.069 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	98.306 %
K 766.490 (ETA AQ-Radial-iFR)	0.512 ppm	102.306 %
Na 818.326 (ETA AQ-Radial-iFR)	0.825 ppm	82.497 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	4 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	63 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	17 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	25 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	163 cps
Ba 455.403 (ETA AQ-Radial-iFR)	47 cps
Na 589.592 (ETA AQ-Radial-iFR)	689 cps
Li 670.784 (ETA AQ-Radial-iFR)	90 cps
K 766.490 (ETA AQ-Radial-iFR)	82 cps
Na 818.326 (ETA AQ-Radial-iFR)	14 cps

Label: 480-224902-D-12-B MS #: 102
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 4:59:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9.958 ppm	364 cps
As 189.042 (ETA AQ-Axial-iFR)	0.918 ppm	96 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.984 ppm	165 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.934 ppm	85 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.916 ppm	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.472 ppm	234 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.490 ppm	387 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.496 ppm	50 cps
B 208.959 (ETA AQ-Axial-iFR)	0.701 ppm	204 cps
P 213.618 (ETA AQ-Axial-iFR)	9.931 ppm	932 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.492 ppm	64 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.233 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.413 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.494 ppm	291 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.493 ppm	606 cps
In 230.606 (ETA AQ-Axial-iFR)	105.782 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.500 ppm	214 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.505 ppm	1,950 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.335 ppm	5,811 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.489 ppm	637 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.111 ppm	123 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mg 279.079 (ETA AQ-Radial-iFR)	25.454 ppm	1,819 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.048 ppm	847 cps
V 292.402 (ETA AQ-Axial-iFR)	0.493 ppm	1,470 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.058 ppm	461 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.506 ppm	11,775 cps
Ca 317.933 (ETA AQ-Radial-iFR)	31.211 ppm	8,510 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.486 ppm	1,533 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.049 ppm	163 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.529 ppm	1,968 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.487 ppm	4,885 cps
Y 360.073 (ETA AQ-Axial-iFR)	104.488 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.695 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.410 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.754 ppm	27,176 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.219 ppm	26,920 cps
Na 589.592 (ETA AQ-Radial-iFR)	131.729 ppm	87,543 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.605 ppm	1,776 cps
K 766.490 (ETA AQ-Radial-iFR)	29.409 ppm	4,515 cps
Na 818.326 (ETA AQ-Radial-iFR)	128.771 ppm	2,375 cps

Label: 480-224902-D-12-C MSD #: 103
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:01:22 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10.196 ppm	372 cps
As 189.042 (ETA AQ-Axial-iFR)	0.930 ppm	97 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.007 ppm	169 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.953 ppm	87 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.927 ppm	83 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.481 ppm	238 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.503 ppm	397 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.503 ppm	51 cps
B 208.959 (ETA AQ-Axial-iFR)	0.717 ppm	208 cps
P 213.618 (ETA AQ-Axial-iFR)	10.204 ppm	957 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.498 ppm	65 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.331 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.253 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.504 ppm	297 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.501 ppm	617 cps
In 230.606 (ETA AQ-Axial-iFR)	103.623 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.512 ppm	220 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.499 ppm	1,928 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.415 ppm	5,897 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.500 ppm	652 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.047 ppm	122 cps
Mg 279.079 (ETA AQ-Radial-iFR)	25.188 ppm	1,800 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.037 ppm	846 cps
V 292.402 (ETA AQ-Axial-iFR)	0.503 ppm	1,499 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.001 ppm	456 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.500 ppm	11,647 cps
Ca 317.933 (ETA AQ-Radial-iFR)	30.839 ppm	8,409 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.492 ppm	1,554 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.050 ppm	167 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.541 ppm	2,012 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.497 ppm	4,984 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Axial-iFR)	102.090 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.779 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.491 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.749 ppm	26,995 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.207 ppm	26,650 cps
Na 589.592 (ETA AQ-Radial-iFR)	131.263 ppm	87,233 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.598 ppm	1,755 cps
K 766.490 (ETA AQ-Radial-iFR)	29.153 ppm	4,475 cps
Na 818.326 (ETA AQ-Radial-iFR)	128.242 ppm	2,366 cps

Label: 480-224902-D-13-A #: 104
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:03:16 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	30.368 ppm	1,102 cps
As 189.042 (ETA AQ-Axial-iFR)	0.010 ppm	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.017 ppm	3 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.016 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.005 ppm	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.053 ppm	134 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.299 ppm	86 cps
P 213.618 (ETA AQ-Axial-iFR)	0.032 ppm	0 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	92.593 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	85.653 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	86.395 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.007 ppm	2 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.142 ppm	654 cps
Fe 259.940 (ETA AQ-Axial-iFR)	1.952 ppm	2,126 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1.864 ppm	45 cps
Mg 279.079 (ETA AQ-Radial-iFR)	41.505 ppm	2,967 cps
Si 288.158 (ETA AQ-Radial-iFR)	3.140 ppm	442 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.160 ppm	16 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	397.015 ppm	108,124 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.008 ppm	24 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	35 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.368 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	86.350 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	86.257 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	30.057 ppm	1,083,089 cps
Ba 455.403 (ETA AQ-Radial-iFR)	6.383 ppm	140,979 cps
Na 589.592 (ETA AQ-Radial-iFR)	2,711.227 ppm	1,801,319 cps
Li 670.784 (ETA AQ-Radial-iFR)	6.043 ppm	17,701 cps
K 766.490 (ETA AQ-Radial-iFR)	60.851 ppm	9,338 cps
Na 818.326 (ETA AQ-Radial-iFR)	4,161.755 ppm	76,804 cps

Label: 480-224902-D-14-A #: 105
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:05:10 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.948 ppm	38 cps
As 189.042 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.008 ppm	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.016 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.012 ppm	6 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.006 ppm	51 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.412 ppm	118 cps
P 213.618 (ETA AQ-Axial-iFR)	0.045 ppm	1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	98.908 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.556 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
In 230.606 (ETA AQ-Axial-iFR)	95.555 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.001 ppm	56 cps
Fe 259.940 (ETA AQ-Axial-iFR)	1.441 ppm	1,570 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1.414 ppm	34 cps
Mg 279.079 (ETA AQ-Radial-iFR)	11.056 ppm	790 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.228 ppm	177 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.136 ppm	13 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	62.404 ppm	17,002 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	14 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	39 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.981 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	90.509 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	89.788 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	7.808 ppm	281,343 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.984 ppm	65,916 cps
Na 589.592 (ETA AQ-Radial-iFR)	1,616.240 ppm	1,073,828 cps
Li 670.784 (ETA AQ-Radial-iFR)	3.123 ppm	9,150 cps
K 766.490 (ETA AQ-Radial-iFR)	39.633 ppm	6,083 cps
Na 818.326 (ETA AQ-Radial-iFR)	1,964.483 ppm	36,253 cps

Label: rinse #: 106
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:07:04 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.016 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.822 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.393 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	103.338 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.019 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.005 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.023 ppm	4 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.025 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.003 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	5 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.591 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.325 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.649 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-7 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.185 ppm	147 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps
K 766.490 (ETA AQ-Radial-iFR)	0.058 ppm	12 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.067 ppm	-2 cps

Label: MB 480-730281/1-A #: 107
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:08:58 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	-0.029 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.037 ppm	6 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.040 ppm	1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.509 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.901 %	198 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	106.223 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.001 ppm	2 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.007 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.004 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.119 ppm	24 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.016 ppm	12 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.249 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.423 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.843 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-8 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.100 ppm	91 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	1 cps
K 766.490 (ETA AQ-Radial-iFR)	0.074 ppm	15 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.111 ppm	-3 cps

Label: LCSSRM 480-730281/2-A #: 108
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:10:53 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.261 ppm	13 cps
As 189.042 (ETA AQ-Axial-iFR)	2.198 ppm	231 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.620 ppm	104 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.633 ppm	151 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.103 ppm	99 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1.039 ppm	514 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.326 ppm	1,034 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.782 ppm	79 cps
B 208.959 (ETA AQ-Axial-iFR)	1.841 ppm	532 cps
P 213.618 (ETA AQ-Axial-iFR)	1.546 ppm	143 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.757 ppm	98 cps
Y 224.306 (ETA AQ-Axial-iFR)	117.363 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	110.267 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.688 ppm	408 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1.637 ppm	2,009 cps
In 230.606 (ETA AQ-Axial-iFR)	111.285 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2.720 ppm	1,171 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.107 ppm	15,740 cps
Fe 259.940 (ETA AQ-Axial-iFR)	53.186 ppm	57,888 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1.432 ppm	1,868 cps
Fe 271.441 (ETA AQ-Radial-iFR)	51.848 ppm	1,233 cps
Mg 279.079 (ETA AQ-Radial-iFR)	13.469 ppm	963 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.178 ppm	877 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
V 292.402 (ETA AQ-Axial-iFR)	0.834 ppm	2,487 cps
Al 308.215 (ETA AQ-Radial-iFR)	61.187 ppm	5,563 cps
Be 313.042 (ETA AQ-Radial-iFR)	1.337 ppm	31,128 cps
Ca 317.933 (ETA AQ-Radial-iFR)	40.364 ppm	11,008 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1.518 ppm	4,802 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.596 ppm	2,231 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.967 ppm	11,045 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.883 ppm	28,874 cps
Y 360.073 (ETA AQ-Axial-iFR)	117.471 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	110.237 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	109.375 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.075 ppm	38,738 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.475 ppm	54,676 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.905 ppm	2,619 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.031 ppm	3,022 cps
K 766.490 (ETA AQ-Radial-iFR)	11.778 ppm	1,809 cps
Na 818.326 (ETA AQ-Radial-iFR)	3.651 ppm	66 cps

Label: 480-224893-A-3-A #: 109
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:12:47 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	1.931 ppm	73 cps
As 189.042 (ETA AQ-Axial-iFR)	0.067 ppm	6 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.035 ppm	6 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.421 ppm	329 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.043 ppm	14 cps
P 213.618 (ETA AQ-Axial-iFR)	3.391 ppm	316 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.211 ppm	27 cps
Y 224.306 (ETA AQ-Axial-iFR)	115.722 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	109.358 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.052 ppm	31 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	105.221 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.125 ppm	53 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.626 ppm	17,696 cps
Fe 259.940 (ETA AQ-Axial-iFR)	115.176 ppm	125,333 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.084 ppm	110 cps
Fe 271.441 (ETA AQ-Radial-iFR)	130.807 ppm	3,107 cps
Mg 279.079 (ETA AQ-Radial-iFR)	23.830 ppm	1,703 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.795 ppm	814 cps
V 292.402 (ETA AQ-Axial-iFR)	0.118 ppm	349 cps
Al 308.215 (ETA AQ-Radial-iFR)	77.399 ppm	7,036 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	75 cps
Ca 317.933 (ETA AQ-Radial-iFR)	97.745 ppm	26,626 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.139 ppm	436 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.935 ppm	3,475 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.861 ppm	8,629 cps
Y 360.073 (ETA AQ-Axial-iFR)	117.547 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	110.124 %	2,493 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 377.433 (ETA AQ-Radial-iFR)	109.230 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.151 ppm	5,428 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.781 ppm	17,245 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.959 ppm	1,325 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.133 ppm	393 cps
K 766.490 (ETA AQ-Radial-iFR)	10.591 ppm	1,627 cps
Na 818.326 (ETA AQ-Radial-iFR)	1.731 ppm	31 cps

Label: 480-224893-A-3-ASD@5 #: 110
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:14:42 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.524 ppm	22 cps
As 189.042 (ETA AQ-Axial-iFR)	0.021 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.009 ppm	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.121 ppm	95 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.012 ppm	5 cps
P 213.618 (ETA AQ-Axial-iFR)	0.935 ppm	85 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.054 ppm	7 cps
Y 224.306 (ETA AQ-Axial-iFR)	106.715 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.418 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.013 ppm	7 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
In 230.606 (ETA AQ-Axial-iFR)	105.545 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.031 ppm	12 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.296 ppm	4,958 cps
Fe 259.940 (ETA AQ-Axial-iFR)	35.932 ppm	39,102 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.023 ppm	31 cps
Fe 271.441 (ETA AQ-Radial-iFR)	36.056 ppm	857 cps
Mg 279.079 (ETA AQ-Radial-iFR)	6.518 ppm	466 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.567 ppm	226 cps
V 292.402 (ETA AQ-Axial-iFR)	0.032 ppm	93 cps
Al 308.215 (ETA AQ-Radial-iFR)	20.963 ppm	1,906 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.001 ppm	18 cps
Ca 317.933 (ETA AQ-Radial-iFR)	27.127 ppm	7,395 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.036 ppm	110 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.257 ppm	952 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.235 ppm	2,360 cps
Y 360.073 (ETA AQ-Axial-iFR)	107.134 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.638 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.842 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.041 ppm	1,466 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.214 ppm	4,718 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.550 ppm	390 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.035 ppm	107 cps
K 766.490 (ETA AQ-Radial-iFR)	2.858 ppm	442 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.370 ppm	6 cps

Label: CCV-8122457 #: 111

Basic Sample Report
10/31/2024 7:39:06 AM

QTEGRA

Analysis Type: QC Analysis started at: 10/30/2024 5:16:36 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.285 ppm	97.142 %
As 189.042 (ETA AQ-Axial-iFR)	0.905 ppm	90.458 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.973 ppm	97.342 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.913 ppm	91.274 %
Se 196.090 (ETA AQ-Axial-iFR)	0.907 ppm	90.710 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.928 ppm	92.817 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.002 ppm	100.248 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.952 ppm	95.181 %
B 208.959 (ETA AQ-Axial-iFR)	0.992 ppm	99.212 %
P 213.618 (ETA AQ-Axial-iFR)	24.877 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.962 ppm	96.227 %
Y 224.306 (ETA AQ-Axial-iFR)	102.939 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.662 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.972 ppm	97.156 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.972 ppm	97.168 %
In 230.606 (ETA AQ-Axial-iFR)	105.673 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.968 ppm	96.806 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.973 ppm	97.278 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.238 ppm	98.477 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.981 ppm	98.091 %
Fe 271.441 (ETA AQ-Radial-iFR)	49.630 ppm	99.259 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.436 ppm	98.872 %
Si 288.158 (ETA AQ-Radial-iFR)	9.601 ppm	96.012 %
V 292.402 (ETA AQ-Axial-iFR)	0.971 ppm	97.115 %
Al 308.215 (ETA AQ-Radial-iFR)	48.939 ppm	97.879 %
Be 313.042 (ETA AQ-Radial-iFR)	0.994 ppm	99.386 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.605 ppm	101.209 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.943 ppm	94.298 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.975 ppm	97.512 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.999 ppm	99.898 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.946 ppm	94.604 %
Y 360.073 (ETA AQ-Axial-iFR)	103.222 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.389 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.204 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.981 ppm	98.126 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.989 ppm	98.915 %
Na 589.592 (ETA AQ-Radial-iFR)	49.028 ppm	98.057 %
Li 670.784 (ETA AQ-Radial-iFR)	0.976 ppm	97.630 %
K 766.490 (ETA AQ-Radial-iFR)	49.328 ppm	98.657 %
Na 818.326 (ETA AQ-Radial-iFR)	48.824 ppm	97.647 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	882 cps
As 189.042 (ETA AQ-Axial-iFR)	94 cps
Sn 189.989 (ETA AQ-Axial-iFR)	164 cps
Tl 190.856 (ETA AQ-Axial-iFR)	84 cps
Se 196.090 (ETA AQ-Axial-iFR)	81 cps
Mo 202.030 (ETA AQ-Axial-iFR)	460 cps
Zn 206.200 (ETA AQ-Axial-iFR)	784 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	290 cps
P 213.618 (ETA AQ-Axial-iFR)	2,338 cps
Pb 220.353 (ETA AQ-Axial-iFR)	124 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	573 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,192 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	416 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,735 cps
Fe 259.940 (ETA AQ-Axial-iFR)	53,588 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,279 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,181 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,534 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,342 cps
V 292.402 (ETA AQ-Axial-iFR)	2,896 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,449 cps
Be 313.042 (ETA AQ-Radial-iFR)	23,144 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,794 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2,981 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,664 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,717 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,479 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	35,352 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,850 cps
Na 589.592 (ETA AQ-Radial-iFR)	32,598 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,863 cps
K 766.490 (ETA AQ-Radial-iFR)	7,570 cps
Na 818.326 (ETA AQ-Radial-iFR)	900 cps

Label: CCB-8122474 #: 112
Analysis Type: QC Analysis started at: 10/30/2024 5:18:32 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.006 ppm	-2.956 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	15.153 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	-1.193 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	15.419 %
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	-0.829 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	-2.134 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.756 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	-9.883 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	11.240 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	-0.001 ppm	-6.495 %
Y 224.306 (ETA AQ-Axial-iFR)	102.852 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.950 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-5.536 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-7.510 %
In 230.606 (ETA AQ-Axial-iFR)	104.204 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1.884 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.007 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.233 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	4.094 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.010 ppm	19.844 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.002 ppm	0.858 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Si 288.158 (ETA AQ-Radial-iFR)	-0.015 ppm	-2.945 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.022 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.008 ppm	-4.121 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.533 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.197 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	0.098 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	0.945 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	13.348 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.002 %
Y 360.073 (ETA AQ-Axial-iFR)	102.314 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.952 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.288 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.936 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	2.629 %
Na 589.592 (ETA AQ-Radial-iFR)	0.021 ppm	2.051 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-0.417 %
K 766.490 (ETA AQ-Radial-iFR)	0.044 ppm	8.818 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.188 ppm	-18.754 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2 cps
Na 589.592 (ETA AQ-Radial-iFR)	38 cps
Li 670.784 (ETA AQ-Radial-iFR)	3 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
K 766.490 (ETA AQ-Radial-iFR)	10 cps
Na 818.326 (ETA AQ-Radial-iFR)	-5 cps

Label: CCVL-8122384 #: 113
Analysis Type: QC Analysis started at: 10/30/2024 5:20:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.168 ppm	84.166 %
As 189.042 (ETA AQ-Axial-iFR)	0.017 ppm	110.255 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	99.597 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.022 ppm	107.779 %
Se 196.090 (ETA AQ-Axial-iFR)	0.025 ppm	98.839 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.588 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	102.409 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.017 ppm	83.790 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	97.831 %
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	90.360 %
Y 224.306 (ETA AQ-Axial-iFR)	103.844 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.404 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	105.741 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	89.503 %
In 230.606 (ETA AQ-Axial-iFR)	104.993 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	100.587 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	98.142 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.055 ppm	110.184 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	110.052 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.059 ppm	118.031 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.197 ppm	98.515 %
Si 288.158 (ETA AQ-Radial-iFR)	0.438 ppm	87.590 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	89.657 %
Al 308.215 (ETA AQ-Radial-iFR)	0.190 ppm	95.219 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.847 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.490 ppm	97.986 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	88.408 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.005 ppm	88.798 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	108.397 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	89.524 %
Y 360.073 (ETA AQ-Axial-iFR)	103.346 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.442 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.659 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	94.228 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	101.368 %
Na 589.592 (ETA AQ-Radial-iFR)	1.013 ppm	101.266 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	95.938 %
K 766.490 (ETA AQ-Radial-iFR)	0.521 ppm	104.240 %
Na 818.326 (ETA AQ-Radial-iFR)	0.872 ppm	87.243 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	62 cps
Cr 267.716 (ETA AQ-Axial-iFR)	6 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	25 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	163 cps
Ba 455.403 (ETA AQ-Radial-iFR)	46 cps
Na 589.592 (ETA AQ-Radial-iFR)	697 cps
Li 670.784 (ETA AQ-Radial-iFR)	88 cps
K 766.490 (ETA AQ-Radial-iFR)	83 cps
Na 818.326 (ETA AQ-Radial-iFR)	15 cps

Label: 480-224893-A-3-APDS #: 114
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:22:22 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	2.466 ppm	93 cps
As 189.042 (ETA AQ-Axial-iFR)	1.498 ppm	157 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.855 ppm	311 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.714 ppm	159 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.339 ppm	119 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.762 ppm	377 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.224 ppm	958 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.770 ppm	78 cps
B 208.959 (ETA AQ-Axial-iFR)	0.867 ppm	253 cps
P 213.618 (ETA AQ-Axial-iFR)	4.226 ppm	395 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.184 ppm	153 cps
Y 224.306 (ETA AQ-Axial-iFR)	115.972 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	111.822 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.981 ppm	580 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.796 ppm	979 cps
In 230.606 (ETA AQ-Axial-iFR)	102.515 %	624 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ni 231.604 (ETA AQ-Axial-iFR)	1.076 ppm	463 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.357 ppm	24,341 cps
Fe 259.940 (ETA AQ-Axial-iFR)	147.382 ppm	160,383 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.859 ppm	1,122 cps
Fe 271.441 (ETA AQ-Radial-iFR)	174.667 ppm	4,151 cps
Mg 279.079 (ETA AQ-Radial-iFR)	110.046 ppm	7,866 cps
Si 288.158 (ETA AQ-Radial-iFR)	9.170 ppm	1,287 cps
V 292.402 (ETA AQ-Axial-iFR)	0.920 ppm	2,744 cps
Al 308.215 (ETA AQ-Radial-iFR)	113.604 ppm	10,327 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.791 ppm	18,431 cps
Ca 317.933 (ETA AQ-Radial-iFR)	196.563 ppm	53,541 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1.031 ppm	3,261 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.081 ppm	281 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.985 ppm	7,387 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.837 ppm	18,398 cps
Y 360.073 (ETA AQ-Axial-iFR)	121.604 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	113.999 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	113.645 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.980 ppm	35,301 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.559 ppm	56,513 cps
Na 589.592 (ETA AQ-Radial-iFR)	85.041 ppm	56,524 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.991 ppm	2,906 cps
K 766.490 (ETA AQ-Radial-iFR)	96.551 ppm	14,813 cps
Na 818.326 (ETA AQ-Radial-iFR)	81.950 ppm	1,511 cps

Label: 480-224893-A-3-B MS #: 115
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:24:16 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9.696 ppm	354 cps
As 189.042 (ETA AQ-Axial-iFR)	1.559 ppm	163 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.771 ppm	297 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.743 ppm	161 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.387 ppm	124 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.782 ppm	387 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.331 ppm	1,040 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.483 ppm	50 cps
B 208.959 (ETA AQ-Axial-iFR)	0.874 ppm	255 cps
P 213.618 (ETA AQ-Axial-iFR)	19.420 ppm	1,824 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.189 ppm	153 cps
Y 224.306 (ETA AQ-Axial-iFR)	119.922 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	116.050 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.990 ppm	585 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.813 ppm	1,000 cps
In 230.606 (ETA AQ-Axial-iFR)	108.429 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	1.105 ppm	475 cps
Mn 257.610 (ETA AQ-Radial-iFR)	7.320 ppm	28,028 cps
Fe 259.940 (ETA AQ-Axial-iFR)	159.373 ppm	173,433 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.939 ppm	1,226 cps
Fe 271.441 (ETA AQ-Radial-iFR)	179.667 ppm	4,270 cps
Mg 279.079 (ETA AQ-Radial-iFR)	93.368 ppm	6,674 cps
Si 288.158 (ETA AQ-Radial-iFR)	19.679 ppm	2,742 cps
V 292.402 (ETA AQ-Axial-iFR)	0.989 ppm	2,949 cps
Al 308.215 (ETA AQ-Radial-iFR)	138.490 ppm	12,589 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.833 ppm	19,393 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ca 317.933 (ETA AQ-Radial-iFR)	175.838 ppm	47,898 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1.050 ppm	3,320 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.083 ppm	287 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.968 ppm	7,324 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.980 ppm	19,837 cps
Y 360.073 (ETA AQ-Axial-iFR)	123.079 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	116.601 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	115.519 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.062 ppm	38,254 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.721 ppm	60,106 cps
Na 589.592 (ETA AQ-Radial-iFR)	43.730 ppm	29,078 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.029 ppm	3,016 cps
K 766.490 (ETA AQ-Radial-iFR)	63.442 ppm	9,734 cps
Na 818.326 (ETA AQ-Radial-iFR)	43.434 ppm	801 cps

Label: 480-224893-A-3-C MSD #: 116
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:26:11 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	7.864 ppm	288 cps
As 189.042 (ETA AQ-Axial-iFR)	1.357 ppm	142 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1.559 ppm	262 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.488 ppm	138 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.221 ppm	109 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.680 ppm	337 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.128 ppm	881 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.484 ppm	50 cps
B 208.959 (ETA AQ-Axial-iFR)	0.762 ppm	223 cps
P 213.618 (ETA AQ-Axial-iFR)	17.300 ppm	1,625 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.008 ppm	130 cps
Y 224.306 (ETA AQ-Axial-iFR)	115.521 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	111.509 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.850 ppm	502 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.711 ppm	874 cps
In 230.606 (ETA AQ-Axial-iFR)	106.048 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.941 ppm	404 cps
Mn 257.610 (ETA AQ-Radial-iFR)	5.955 ppm	22,800 cps
Fe 259.940 (ETA AQ-Axial-iFR)	131.267 ppm	142,847 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.801 ppm	1,045 cps
Fe 271.441 (ETA AQ-Radial-iFR)	147.759 ppm	3,512 cps
Mg 279.079 (ETA AQ-Radial-iFR)	65.520 ppm	4,683 cps
Si 288.158 (ETA AQ-Radial-iFR)	10.945 ppm	1,531 cps
V 292.402 (ETA AQ-Axial-iFR)	0.847 ppm	2,526 cps
Al 308.215 (ETA AQ-Radial-iFR)	107.534 ppm	9,775 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.725 ppm	16,878 cps
Ca 317.933 (ETA AQ-Radial-iFR)	129.498 ppm	35,277 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.888 ppm	2,806 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.072 ppm	249 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.593 ppm	5,927 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.513 ppm	15,161 cps
Y 360.073 (ETA AQ-Axial-iFR)	119.204 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	112.218 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	111.219 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.899 ppm	32,370 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.277 ppm	50,291 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 589.592 (ETA AQ-Radial-iFR)	37.889 ppm	25,197 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.886 ppm	2,597 cps
K 766.490 (ETA AQ-Radial-iFR)	51.398 ppm	7,887 cps
Na 818.326 (ETA AQ-Radial-iFR)	37.235 ppm	686 cps

Label: 480-224893-C-6-A #: 117
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:28:05 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	1.550 ppm	60 cps
As 189.042 (ETA AQ-Axial-iFR)	0.078 ppm	7 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.049 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.615 ppm	480 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.044 ppm	14 cps
P 213.618 (ETA AQ-Axial-iFR)	3.977 ppm	371 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.379 ppm	49 cps
Y 224.306 (ETA AQ-Axial-iFR)	115.627 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	110.858 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.054 ppm	31 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	105.758 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.127 ppm	54 cps
Mn 257.610 (ETA AQ-Radial-iFR)	5.919 ppm	22,637 cps
Fe 259.940 (ETA AQ-Axial-iFR)	117.995 ppm	128,400 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.090 ppm	118 cps
Fe 271.441 (ETA AQ-Radial-iFR)	132.023 ppm	3,136 cps
Mg 279.079 (ETA AQ-Radial-iFR)	24.951 ppm	1,783 cps
Si 288.158 (ETA AQ-Radial-iFR)	8.514 ppm	1,190 cps
V 292.402 (ETA AQ-Axial-iFR)	0.126 ppm	374 cps
Al 308.215 (ETA AQ-Radial-iFR)	79.864 ppm	7,260 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	72 cps
Ca 317.933 (ETA AQ-Radial-iFR)	109.761 ppm	29,898 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.143 ppm	449 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-18 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.787 ppm	2,924 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.726 ppm	7,273 cps
Y 360.073 (ETA AQ-Axial-iFR)	119.051 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	112.517 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	112.027 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.180 ppm	6,490 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.788 ppm	17,396 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.210 ppm	828 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.140 ppm	413 cps
K 766.490 (ETA AQ-Radial-iFR)	11.422 ppm	1,755 cps
Na 818.326 (ETA AQ-Radial-iFR)	1.095 ppm	19 cps

Label: 480-224894-A-1-A #: 118
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:30:00 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	12.306 ppm	449 cps
As 189.042 (ETA AQ-Axial-iFR)	0.029 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.051 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.005 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	2.912 ppm	2,271 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.132 ppm	39 cps
P 213.618 (ETA AQ-Axial-iFR)	2.891 ppm	269 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.145 ppm	148 cps
Y 224.306 (ETA AQ-Axial-iFR)	104.828 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.825 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.034 ppm	20 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.008 ppm	11 cps
In 230.606 (ETA AQ-Axial-iFR)	97.006 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.084 ppm	35 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.314 ppm	16,494 cps
Fe 259.940 (ETA AQ-Axial-iFR)	77.345 ppm	84,167 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.089 ppm	117 cps
Fe 271.441 (ETA AQ-Radial-iFR)	78.325 ppm	1,862 cps
Mg 279.079 (ETA AQ-Radial-iFR)	395.023 ppm	28,237 cps
Si 288.158 (ETA AQ-Radial-iFR)	13.842 ppm	1,929 cps
V 292.402 (ETA AQ-Axial-iFR)	0.119 ppm	354 cps
Al 308.215 (ETA AQ-Radial-iFR)	63.469 ppm	5,770 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	59 cps
Ca 317.933 (ETA AQ-Radial-iFR)	725.298 ppm	197,524 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.155 ppm	487 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.106 ppm	4,113 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.024 ppm	10,261 cps
Y 360.073 (ETA AQ-Axial-iFR)	112.330 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	103.702 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	103.207 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.438 ppm	15,761 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.396 ppm	8,753 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.026 ppm	2,035 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.090 ppm	268 cps
K 766.490 (ETA AQ-Radial-iFR)	17.383 ppm	2,669 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.745 ppm	50 cps

Label: 480-224894-A-2-A #: 119
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:31:54 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	19.023 ppm	692 cps
As 189.042 (ETA AQ-Axial-iFR)	0.036 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.076 ppm	13 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.008 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.003 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3.594 ppm	2,804 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.008 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.116 ppm	34 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
P 213.618 (ETA AQ-Axial-iFR)	2.320 ppm	215 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1.390 ppm	180 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.800 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.865 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.025 ppm	15 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.012 ppm	15 cps
In 230.606 (ETA AQ-Axial-iFR)	97.499 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.061 ppm	25 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3.421 ppm	13,094 cps
Fe 259.940 (ETA AQ-Axial-iFR)	107.733 ppm	117,233 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.078 ppm	102 cps
Fe 271.441 (ETA AQ-Radial-iFR)	109.499 ppm	2,602 cps
Mg 279.079 (ETA AQ-Radial-iFR)	352.926 ppm	25,228 cps
Si 288.158 (ETA AQ-Radial-iFR)	8.052 ppm	1,127 cps
V 292.402 (ETA AQ-Axial-iFR)	0.110 ppm	325 cps
Al 308.215 (ETA AQ-Radial-iFR)	51.965 ppm	4,724 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	52 cps
Ca 317.933 (ETA AQ-Radial-iFR)	697.960 ppm	190,079 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.130 ppm	407 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.002 ppm	-14 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.900 ppm	3,345 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.856 ppm	8,580 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.712 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.485 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.576 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.078 ppm	38,822 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.064 ppm	23,499 cps
Na 589.592 (ETA AQ-Radial-iFR)	2.327 ppm	1,570 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.080 ppm	236 cps
K 766.490 (ETA AQ-Radial-iFR)	14.385 ppm	2,209 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.029 ppm	36 cps

Label: 480-224894-A-3-A #: 120
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:33:48 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	6.825 ppm	250 cps
As 189.042 (ETA AQ-Axial-iFR)	0.022 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.047 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.008 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3.190 ppm	2,489 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.007 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.090 ppm	27 cps
P 213.618 (ETA AQ-Axial-iFR)	2.499 ppm	232 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.857 ppm	111 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.185 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.290 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.020 ppm	11 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
In 230.606 (ETA AQ-Axial-iFR)	96.186 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.053 ppm	22 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.146 ppm	15,853 cps
Fe 259.940 (ETA AQ-Axial-iFR)	53.277 ppm	57,976 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Cr 267.716 (ETA AQ-Axial-iFR)	0.052 ppm	69 cps
Fe 271.441 (ETA AQ-Radial-iFR)	51.093 ppm	1,215 cps
Mg 279.079 (ETA AQ-Radial-iFR)	471.703 ppm	33,719 cps
Si 288.158 (ETA AQ-Radial-iFR)	8.199 ppm	1,146 cps
V 292.402 (ETA AQ-Axial-iFR)	0.076 ppm	224 cps
Al 308.215 (ETA AQ-Radial-iFR)	40.548 ppm	3,687 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	38 cps
Ca 317.933 (ETA AQ-Radial-iFR)	796.272 ppm	216,852 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.092 ppm	287 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-15 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.681 ppm	2,532 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.628 ppm	6,292 cps
Y 360.073 (ETA AQ-Axial-iFR)	106.407 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.887 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.270 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.499 ppm	17,980 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.373 ppm	8,238 cps
Na 589.592 (ETA AQ-Radial-iFR)	4.249 ppm	2,847 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.064 ppm	191 cps
K 766.490 (ETA AQ-Radial-iFR)	11.109 ppm	1,707 cps
Na 818.326 (ETA AQ-Radial-iFR)	3.815 ppm	69 cps

Label: 480-224892-A-3-A #: 121
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:35:43 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	1.605 ppm	62 cps
As 189.042 (ETA AQ-Axial-iFR)	0.057 ppm	5 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.048 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.659 ppm	515 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.036 ppm	12 cps
P 213.618 (ETA AQ-Axial-iFR)	3.567 ppm	333 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.436 ppm	56 cps
Y 224.306 (ETA AQ-Axial-iFR)	109.840 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	106.479 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.051 ppm	30 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	104.949 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.100 ppm	42 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.507 ppm	17,240 cps
Fe 259.940 (ETA AQ-Axial-iFR)	108.817 ppm	118,413 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.081 ppm	106 cps
Fe 271.441 (ETA AQ-Radial-iFR)	118.479 ppm	2,815 cps
Mg 279.079 (ETA AQ-Radial-iFR)	20.534 ppm	1,468 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.816 ppm	955 cps
V 292.402 (ETA AQ-Axial-iFR)	0.122 ppm	363 cps
Al 308.215 (ETA AQ-Radial-iFR)	76.972 ppm	6,997 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.004 ppm	83 cps
Ca 317.933 (ETA AQ-Radial-iFR)	81.284 ppm	22,143 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.161 ppm	506 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Ti 334.904 (ETA AQ-Axial-iFR)	0.833 ppm	3,096 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.766 ppm	7,678 cps
Y 360.073 (ETA AQ-Axial-iFR)	113.371 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	107.676 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	107.736 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.173 ppm	6,224 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.713 ppm	15,744 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.286 ppm	878 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.106 ppm	313 cps
K 766.490 (ETA AQ-Radial-iFR)	9.065 ppm	1,393 cps
Na 818.326 (ETA AQ-Radial-iFR)	1.075 ppm	19 cps

Label: 480-224895-C-1-A #: 122
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:37:37 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	9.158 ppm	335 cps
As 189.042 (ETA AQ-Axial-iFR)	0.030 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.045 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.008 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.019 ppm	9 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.404 ppm	1,095 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.118 ppm	35 cps
P 213.618 (ETA AQ-Axial-iFR)	2.403 ppm	223 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.434 ppm	56 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.948 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.728 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.032 ppm	19 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.011 ppm	15 cps
In 230.606 (ETA AQ-Axial-iFR)	98.064 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.110 ppm	46 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3.311 ppm	12,675 cps
Fe 259.940 (ETA AQ-Axial-iFR)	107.392 ppm	116,864 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.156 ppm	204 cps
Fe 271.441 (ETA AQ-Radial-iFR)	112.194 ppm	2,666 cps
Mg 279.079 (ETA AQ-Radial-iFR)	173.018 ppm	12,368 cps
Si 288.158 (ETA AQ-Radial-iFR)	17.468 ppm	2,433 cps
V 292.402 (ETA AQ-Axial-iFR)	0.123 ppm	364 cps
Al 308.215 (ETA AQ-Radial-iFR)	109.846 ppm	9,985 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.004 ppm	89 cps
Ca 317.933 (ETA AQ-Radial-iFR)	673.010 ppm	183,285 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.257 ppm	810 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1.528 ppm	5,685 cps
Ti 334.941 (ETA AQ-Axial-iFR)	1.414 ppm	14,164 cps
Y 360.073 (ETA AQ-Axial-iFR)	109.608 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.703 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	102.308 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.786 ppm	28,322 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.111 ppm	24,540 cps
Na 589.592 (ETA AQ-Radial-iFR)	2.324 ppm	1,568 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.069 ppm	206 cps
K 766.490 (ETA AQ-Radial-iFR)	10.599 ppm	1,628 cps

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Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Na 818.326 (ETA AQ-Radial-iFR)	2.009 ppm	36 cps

Label: CCV-8122457 #: 123
Analysis Type: QC Analysis started at: 10/30/2024 5:39:32 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.376 ppm	97.505 %
As 189.042 (ETA AQ-Axial-iFR)	0.908 ppm	90.785 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.965 ppm	96.463 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.916 ppm	91.564 %
Se 196.090 (ETA AQ-Axial-iFR)	0.914 ppm	91.369 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.927 ppm	92.674 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.000 ppm	99.968 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.955 ppm	95.524 %
B 208.959 (ETA AQ-Axial-iFR)	0.980 ppm	97.978 %
P 213.618 (ETA AQ-Axial-iFR)	24.896 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.955 ppm	95.539 %
Y 224.306 (ETA AQ-Axial-iFR)	103.928 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.906 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.968 ppm	96.791 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.961 ppm	96.137 %
In 230.606 (ETA AQ-Axial-iFR)	107.703 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.963 ppm	96.336 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.954 ppm	95.407 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.361 ppm	100.723 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.987 ppm	98.688 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.544 ppm	97.088 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.566 ppm	97.133 %
Si 288.158 (ETA AQ-Radial-iFR)	9.591 ppm	95.911 %
V 292.402 (ETA AQ-Axial-iFR)	0.969 ppm	96.905 %
Al 308.215 (ETA AQ-Radial-iFR)	48.856 ppm	97.712 %
Be 313.042 (ETA AQ-Radial-iFR)	0.966 ppm	96.595 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.128 ppm	100.256 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.952 ppm	95.226 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.968 ppm	96.801 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.990 ppm	98.953 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.963 ppm	96.263 %
Y 360.073 (ETA AQ-Axial-iFR)	104.130 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.317 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.465 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.965 ppm	96.529 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.985 ppm	98.547 %
Na 589.592 (ETA AQ-Radial-iFR)	49.784 ppm	99.568 %
Li 670.784 (ETA AQ-Radial-iFR)	0.987 ppm	98.705 %
K 766.490 (ETA AQ-Radial-iFR)	50.157 ppm	100.313 %
Na 818.326 (ETA AQ-Radial-iFR)	47.942 ppm	95.884 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	886 cps
As 189.042 (ETA AQ-Axial-iFR)	95 cps
Sn 189.989 (ETA AQ-Axial-iFR)	162 cps
Tl 190.856 (ETA AQ-Axial-iFR)	84 cps
Se 196.090 (ETA AQ-Axial-iFR)	82 cps
Mo 202.030 (ETA AQ-Axial-iFR)	459 cps
Zn 206.200 (ETA AQ-Axial-iFR)	782 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	287 cps
P 213.618 (ETA AQ-Axial-iFR)	2,340 cps
Pb 220.353 (ETA AQ-Axial-iFR)	124 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	571 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,179 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	414 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,664 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54,810 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,287 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,156 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,472 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,340 cps
V 292.402 (ETA AQ-Axial-iFR)	2,889 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,442 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,494 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,664 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,010 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,637 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,682 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,645 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,777 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,768 cps
Na 589.592 (ETA AQ-Radial-iFR)	33,100 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,894 cps
K 766.490 (ETA AQ-Radial-iFR)	7,697 cps
Na 818.326 (ETA AQ-Radial-iFR)	884 cps

Label: CCB-8122474 #: 124
Analysis Type: QC Analysis started at: 10/30/2024 5:41:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.014 ppm	-7.227 %
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	19.467 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0.200 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	11.868 %
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	17.485 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-7.849 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.213 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	1.891 %
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	13.204 %
P 213.618 (ETA AQ-Axial-iFR)	0.003 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	7.244 %
Y 224.306 (ETA AQ-Axial-iFR)	100.577 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.567 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-10.174 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-4.597 %
In 230.606 (ETA AQ-Axial-iFR)	102.404 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-4.477 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.003 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.003 ppm	0.294 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	6.704 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.009 ppm	18.871 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.006 ppm	3.000 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.015 ppm	-3.088 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.032 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.007 ppm	-3.334 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.225 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.005 ppm	-0.925 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	6.837 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-2.800 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	8.843 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.010 %
Y 360.073 (ETA AQ-Axial-iFR)	101.053 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.042 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.589 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-1.694 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	7.304 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.140 %
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-1.619 %
K 766.490 (ETA AQ-Radial-iFR)	0.017 ppm	3.461 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.203 ppm	-20.325 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	6 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	5 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-21 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-10 cps
Ba 455.403 (ETA AQ-Radial-iFR)	4 cps
Na 589.592 (ETA AQ-Radial-iFR)	23 cps
Li 670.784 (ETA AQ-Radial-iFR)	2 cps
K 766.490 (ETA AQ-Radial-iFR)	6 cps
Na 818.326 (ETA AQ-Radial-iFR)	-5 cps

Label: CCVL-8122384 #: 125
Analysis Type: QC Analysis started at: 10/30/2024 5:43:22 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.173 ppm	86.254 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	98.954 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	95.222 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.019 ppm	97.456 %
Se 196.090 (ETA AQ-Axial-iFR)	0.022 ppm	88.369 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.103 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	102.344 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.019 ppm	97.388 %
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	98.247 %
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	66.633 %
Y 224.306 (ETA AQ-Axial-iFR)	101.416 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.845 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	90.676 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	90.332 %
In 230.606 (ETA AQ-Axial-iFR)	102.564 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	98.255 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	93.818 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.057 ppm	114.339 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	99.076 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.045 ppm	90.482 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.200 ppm	100.068 %
Si 288.158 (ETA AQ-Radial-iFR)	0.434 ppm	86.879 %
V 292.402 (ETA AQ-Axial-iFR)	0.004 ppm	88.166 %
Al 308.215 (ETA AQ-Radial-iFR)	0.182 ppm	91.245 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	96.419 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.486 ppm	97.224 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	94.948 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	96.486 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	107.482 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.004 ppm	89.643 %
Y 360.073 (ETA AQ-Axial-iFR)	101.827 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.562 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.514 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	92.636 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	104.474 %
Na 589.592 (ETA AQ-Radial-iFR)	0.984 ppm	98.427 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	96.799 %
K 766.490 (ETA AQ-Radial-iFR)	0.480 ppm	95.959 %
Na 818.326 (ETA AQ-Radial-iFR)	0.702 ppm	70.206 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	11 cps
Fe 259.940 (ETA AQ-Axial-iFR)	65 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	67 cps
V 292.402 (ETA AQ-Axial-iFR)	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	42 cps
Ca 317.933 (ETA AQ-Radial-iFR)	140 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	50 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	160 cps
Ba 455.403 (ETA AQ-Radial-iFR)	47 cps
Na 589.592 (ETA AQ-Radial-iFR)	678 cps
Li 670.784 (ETA AQ-Radial-iFR)	88 cps
K 766.490 (ETA AQ-Radial-iFR)	77 cps
Na 818.326 (ETA AQ-Radial-iFR)	12 cps

Label: 480-224895-A-2-A #: 126
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:45:18 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	12.604 ppm	460 cps
As 189.042 (ETA AQ-Axial-iFR)	0.103 ppm	10 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.050 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.015 ppm	8 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.942 ppm	735 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	2 cps
B 208.959 (ETA AQ-Axial-iFR)	0.131 ppm	39 cps
P 213.618 (ETA AQ-Axial-iFR)	1.523 ppm	140 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.799 ppm	102 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 224.306 (ETA AQ-Axial-iFR)	100.784 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.141 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.057 ppm	35 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	96.004 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.140 ppm	59 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3.586 ppm	13,724 cps
Fe 259.940 (ETA AQ-Axial-iFR)	249.747 ppm	271,762 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.167 ppm	218 cps
Fe 271.441 (ETA AQ-Radial-iFR)	338.781 ppm	8,047 cps
Mg 279.079 (ETA AQ-Radial-iFR)	40.438 ppm	2,891 cps
Si 288.158 (ETA AQ-Radial-iFR)	28.038 ppm	3,902 cps
V 292.402 (ETA AQ-Axial-iFR)	0.117 ppm	348 cps
Al 308.215 (ETA AQ-Radial-iFR)	55.072 ppm	5,007 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	54 cps
Ca 317.933 (ETA AQ-Radial-iFR)	891.038 ppm	242,659 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.194 ppm	611 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.483 ppm	9,238 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.291 ppm	22,951 cps
Y 360.073 (ETA AQ-Axial-iFR)	107.734 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.444 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.872 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.823 ppm	29,637 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.997 ppm	22,030 cps
Na 589.592 (ETA AQ-Radial-iFR)	2.308 ppm	1,558 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.046 ppm	137 cps
K 766.490 (ETA AQ-Radial-iFR)	10.735 ppm	1,649 cps
Na 818.326 (ETA AQ-Radial-iFR)	1.892 ppm	34 cps

Label: 480-224895-A-7-A #: 127
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:47:12 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	17.548 ppm	639 cps
As 189.042 (ETA AQ-Axial-iFR)	0.032 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.047 ppm	8 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	5 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.579 ppm	1,232 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.185 ppm	54 cps
P 213.618 (ETA AQ-Axial-iFR)	2.097 ppm	194 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.127 ppm	16 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.256 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.114 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.033 ppm	22 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	94.155 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.104 ppm	44 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.266 ppm	8,671 cps
Fe 259.940 (ETA AQ-Axial-iFR)	108.340 ppm	117,894 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.119 ppm	156 cps
Fe 271.441 (ETA AQ-Radial-iFR)	110.776 ppm	2,632 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Mg 279.079 (ETA AQ-Radial-iFR)	244.942 ppm	17,509 cps
Si 288.158 (ETA AQ-Radial-iFR)	55.694 ppm	7,737 cps
V 292.402 (ETA AQ-Axial-iFR)	0.129 ppm	384 cps
Al 308.215 (ETA AQ-Radial-iFR)	62.181 ppm	5,653 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	65 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,168.188 ppm	318,134 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.148 ppm	464 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3.644 ppm	13,561 cps
Ti 334.941 (ETA AQ-Axial-iFR)	3.368 ppm	33,735 cps
Y 360.073 (ETA AQ-Axial-iFR)	109.144 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	101.423 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	103.190 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.509 ppm	54,358 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.492 ppm	10,863 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.280 ppm	2,203 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.091 ppm	271 cps
K 766.490 (ETA AQ-Radial-iFR)	16.803 ppm	2,580 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.845 ppm	51 cps

Label: 480-224895-C-11-A #: 128
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:49:06 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	14.485 ppm	528 cps
As 189.042 (ETA AQ-Axial-iFR)	0.041 ppm	3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.081 ppm	14 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.048 ppm	24 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3.578 ppm	2,791 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.233 ppm	68 cps
P 213.618 (ETA AQ-Axial-iFR)	2.104 ppm	195 cps
Pb 220.353 (ETA AQ-Axial-iFR)	3.124 ppm	404 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.549 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.374 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.082 ppm	51 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.011 ppm	15 cps
In 230.606 (ETA AQ-Axial-iFR)	93.119 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.198 ppm	84 cps
Mn 257.610 (ETA AQ-Radial-iFR)	6.203 ppm	23,761 cps
Fe 259.940 (ETA AQ-Axial-iFR)	187.742 ppm	204,294 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.272 ppm	356 cps
Fe 271.441 (ETA AQ-Radial-iFR)	222.355 ppm	5,282 cps
Mg 279.079 (ETA AQ-Radial-iFR)	330.222 ppm	23,605 cps
Si 288.158 (ETA AQ-Radial-iFR)	47.053 ppm	6,537 cps
V 292.402 (ETA AQ-Axial-iFR)	0.125 ppm	370 cps
Al 308.215 (ETA AQ-Radial-iFR)	79.097 ppm	7,190 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.006 ppm	146 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,071.495 ppm	291,802 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.611 ppm	1,932 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.003 ppm	-10 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3.099 ppm	11,533 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.869 ppm	28,731 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 360.073 (ETA AQ-Axial-iFR)	111.032 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	104.040 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	106.033 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.260 ppm	45,381 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.972 ppm	65,641 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.046 ppm	2,048 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.127 ppm	377 cps
K 766.490 (ETA AQ-Radial-iFR)	17.963 ppm	2,758 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.623 ppm	47 cps

Label: 480-224895-A-12-A #: 129
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:51:01 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	7.463 ppm	273 cps
As 189.042 (ETA AQ-Axial-iFR)	0.121 ppm	11 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.090 ppm	15 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.007 ppm	0 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.014 ppm	7 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.978 ppm	763 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.021 ppm	5 cps
B 208.959 (ETA AQ-Axial-iFR)	0.166 ppm	49 cps
P 213.618 (ETA AQ-Axial-iFR)	2.297 ppm	213 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.170 ppm	18 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.823 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.648 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.116 ppm	70 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	88.744 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.180 ppm	77 cps
Mn 257.610 (ETA AQ-Radial-iFR)	5.382 ppm	20,576 cps
Fe 259.940 (ETA AQ-Axial-iFR)	361.772 ppm	393,659 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.232 ppm	304 cps
Fe 271.441 (ETA AQ-Radial-iFR)	682.801 ppm	16,220 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,232.041 ppm	88,070 cps
Si 288.158 (ETA AQ-Radial-iFR)	51.293 ppm	7,120 cps
V 292.402 (ETA AQ-Axial-iFR)	0.178 ppm	529 cps
Al 308.215 (ETA AQ-Radial-iFR)	46.473 ppm	4,225 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.003 ppm	62 cps
Ca 317.933 (ETA AQ-Radial-iFR)	661.359 ppm	180,112 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.634 ppm	2,005 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.003 ppm	-11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.274 ppm	8,462 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.106 ppm	21,096 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.562 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.850 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	98.926 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.919 ppm	33,095 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.372 ppm	8,224 cps
Na 589.592 (ETA AQ-Radial-iFR)	2.606 ppm	1,755 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.083 ppm	246 cps
K 766.490 (ETA AQ-Radial-iFR)	12.294 ppm	1,889 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.244 ppm	40 cps

Label: 480-224895-A-18-A #: 130
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:52:55 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	15.283 ppm	557 cps
As 189.042 (ETA AQ-Axial-iFR)	0.050 ppm	4 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.111 ppm	19 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.035 ppm	17 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.102 ppm	860 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	2 cps
B 208.959 (ETA AQ-Axial-iFR)	0.209 ppm	61 cps
P 213.618 (ETA AQ-Axial-iFR)	2.281 ppm	212 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.616 ppm	78 cps
Y 224.306 (ETA AQ-Axial-iFR)	103.527 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.939 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.066 ppm	41 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
In 230.606 (ETA AQ-Axial-iFR)	95.546 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.273 ppm	116 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4.476 ppm	17,117 cps
Fe 259.940 (ETA AQ-Axial-iFR)	268.759 ppm	292,451 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.294 ppm	384 cps
Fe 271.441 (ETA AQ-Radial-iFR)	368.408 ppm	8,751 cps
Mg 279.079 (ETA AQ-Radial-iFR)	268.850 ppm	19,218 cps
Si 288.158 (ETA AQ-Radial-iFR)	47.676 ppm	6,623 cps
V 292.402 (ETA AQ-Axial-iFR)	0.139 ppm	414 cps
Al 308.215 (ETA AQ-Radial-iFR)	76.417 ppm	6,947 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.005 ppm	111 cps
Ca 317.933 (ETA AQ-Radial-iFR)	932.183 ppm	253,864 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.405 ppm	1,280 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.002 ppm	-12 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3.016 ppm	11,222 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.871 ppm	28,751 cps
Y 360.073 (ETA AQ-Axial-iFR)	110.977 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	102.313 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	104.504 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.984 ppm	35,462 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.544 ppm	12,008 cps
Na 589.592 (ETA AQ-Radial-iFR)	24.685 ppm	16,424 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.150 ppm	444 cps
K 766.490 (ETA AQ-Radial-iFR)	21.113 ppm	3,241 cps
Na 818.326 (ETA AQ-Radial-iFR)	22.996 ppm	423 cps

Label: 480-224895-A-19-A #: 131
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:54:50 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	12.969 ppm	473 cps
As 189.042 (ETA AQ-Axial-iFR)	0.037 ppm	3 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.044 ppm	8 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.025 ppm	12 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.819 ppm	639 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.168 ppm	49 cps
P 213.618 (ETA AQ-Axial-iFR)	1.735 ppm	160 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.446 ppm	57 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.348 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.344 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.041 ppm	25 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
In 230.606 (ETA AQ-Axial-iFR)	96.258 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.135 ppm	57 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.842 ppm	10,868 cps
Fe 259.940 (ETA AQ-Axial-iFR)	119.846 ppm	130,413 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.132 ppm	173 cps
Fe 271.441 (ETA AQ-Radial-iFR)	126.830 ppm	3,013 cps
Mg 279.079 (ETA AQ-Radial-iFR)	229.038 ppm	16,372 cps
Si 288.158 (ETA AQ-Radial-iFR)	18.022 ppm	2,514 cps
V 292.402 (ETA AQ-Axial-iFR)	0.109 ppm	324 cps
Al 308.215 (ETA AQ-Radial-iFR)	56.825 ppm	5,166 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.004 ppm	79 cps
Ca 317.933 (ETA AQ-Radial-iFR)	874.710 ppm	238,213 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.238 ppm	749 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.213 ppm	8,235 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.047 ppm	20,509 cps
Y 360.073 (ETA AQ-Axial-iFR)	108.234 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.720 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	102.622 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.869 ppm	31,290 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.408 ppm	9,009 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.216 ppm	2,161 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.085 ppm	251 cps
K 766.490 (ETA AQ-Radial-iFR)	12.317 ppm	1,892 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.724 ppm	49 cps

Label: 480-224895-C-24-A #: 132
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:56:44 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	0.718 ppm	29 cps
As 189.042 (ETA AQ-Axial-iFR)	0.007 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.041 ppm	7 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.008 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.097 ppm	76 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	2.061 ppm	191 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.031 ppm	4 cps
Y 224.306 (ETA AQ-Axial-iFR)	103.518 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.421 %	198 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Co 228.616 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	107.108 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.193 ppm	739 cps
Fe 259.940 (ETA AQ-Axial-iFR)	7.576 ppm	8,246 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.009 ppm	12 cps
Fe 271.441 (ETA AQ-Radial-iFR)	7.020 ppm	167 cps
Mg 279.079 (ETA AQ-Radial-iFR)	2.935 ppm	210 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.256 ppm	874 cps
V 292.402 (ETA AQ-Axial-iFR)	0.003 ppm	7 cps
Al 308.215 (ETA AQ-Radial-iFR)	1.023 ppm	94 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	144.920 ppm	39,473 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.044 ppm	136 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-19 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.102 ppm	375 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.093 ppm	937 cps
Y 360.073 (ETA AQ-Axial-iFR)	105.825 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.131 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	101.712 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.122 ppm	4,395 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.045 ppm	1,001 cps
Na 589.592 (ETA AQ-Radial-iFR)	4.669 ppm	3,126 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.011 ppm	37 cps
K 766.490 (ETA AQ-Radial-iFR)	9.832 ppm	1,512 cps
Na 818.326 (ETA AQ-Radial-iFR)	4.263 ppm	78 cps

Label: 480-224895-A-25-A #: 133
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 5:58:39 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	15.390 ppm	560 cps
As 189.042 (ETA AQ-Axial-iFR)	0.046 ppm	4 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.053 ppm	9 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.017 ppm	9 cps
Zn 206.200 (ETA AQ-Axial-iFR)	2.637 ppm	2,057 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.003 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.179 ppm	53 cps
P 213.618 (ETA AQ-Axial-iFR)	1.778 ppm	164 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.558 ppm	72 cps
Y 224.306 (ETA AQ-Axial-iFR)	105.062 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.647 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.036 ppm	23 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.012 ppm	16 cps
In 230.606 (ETA AQ-Axial-iFR)	98.335 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.120 ppm	51 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3.821 ppm	14,613 cps
Fe 259.940 (ETA AQ-Axial-iFR)	111.370 ppm	121,191 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.125 ppm	164 cps
Fe 271.441 (ETA AQ-Radial-iFR)	116.598 ppm	2,770 cps
Mg 279.079 (ETA AQ-Radial-iFR)	124.440 ppm	8,895 cps
Si 288.158 (ETA AQ-Radial-iFR)	49.042 ppm	6,811 cps

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
V 292.402 (ETA AQ-Axial-iFR)	0.115 ppm	340 cps
Al 308.215 (ETA AQ-Radial-iFR)	66.032 ppm	6,003 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.005 ppm	102 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,005.825 ppm	273,918 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.404 ppm	1,276 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-17 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.795 ppm	10,401 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.584 ppm	25,886 cps
Y 360.073 (ETA AQ-Axial-iFR)	110.712 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	102.673 %	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	104.844 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.012 ppm	36,454 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.557 ppm	12,308 cps
Na 589.592 (ETA AQ-Radial-iFR)	3.423 ppm	2,299 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.081 ppm	241 cps
K 766.490 (ETA AQ-Radial-iFR)	14.232 ppm	2,186 cps
Na 818.326 (ETA AQ-Radial-iFR)	2.970 ppm	54 cps

Label: 480-224895-E-26-A #: 134
Analysis Type: UNKNOWN Analysis started at: 10/30/2024 6:00:34 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10.723 ppm	392 cps
As 189.042 (ETA AQ-Axial-iFR)	0.029 ppm	2 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.062 ppm	11 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.017 ppm	9 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.704 ppm	550 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.007 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.388 ppm	112 cps
P 213.618 (ETA AQ-Axial-iFR)	1.738 ppm	161 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.121 ppm	15 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.192 %	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.315 %	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.046 ppm	28 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.003 ppm	5 cps
In 230.606 (ETA AQ-Axial-iFR)	96.700 %	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.154 ppm	65 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.551 ppm	9,756 cps
Fe 259.940 (ETA AQ-Axial-iFR)	194.836 ppm	212,012 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.122 ppm	159 cps
Fe 271.441 (ETA AQ-Radial-iFR)	228.486 ppm	5,428 cps
Mg 279.079 (ETA AQ-Radial-iFR)	400.696 ppm	28,643 cps
Si 288.158 (ETA AQ-Radial-iFR)	58.206 ppm	8,078 cps
V 292.402 (ETA AQ-Axial-iFR)	0.104 ppm	309 cps
Al 308.215 (ETA AQ-Radial-iFR)	62.653 ppm	5,696 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	51 cps
Ca 317.933 (ETA AQ-Radial-iFR)	1,101.925 ppm	300,089 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.306 ppm	966 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-16 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.287 ppm	8,508 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.174 ppm	21,776 cps
Y 360.073 (ETA AQ-Axial-iFR)	107.220 %	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.003 %	2,493 cps

Basic Sample Report
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QTEGRA

Analyte (Measure Mode)	Concentration average	IS Corrected Intensity Average
Y 377.433 (ETA AQ-Radial-iFR)	100.045 %	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.826 ppm	29,772 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.271 ppm	5,979 cps
Na 589.592 (ETA AQ-Radial-iFR)	5.116 ppm	3,423 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.120 ppm	356 cps
K 766.490 (ETA AQ-Radial-iFR)	15.130 ppm	2,324 cps
Na 818.326 (ETA AQ-Radial-iFR)	4.542 ppm	83 cps

Label: CCV-8122457 #: 135
Analysis Type: QC Analysis started at: 10/30/2024 6:02:29 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.470 ppm	97.878 %
As 189.042 (ETA AQ-Axial-iFR)	0.895 ppm	89.505 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.973 ppm	97.317 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.906 ppm	90.565 %
Se 196.090 (ETA AQ-Axial-iFR)	0.907 ppm	90.663 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.920 ppm	92.001 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.999 ppm	99.877 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.956 ppm	95.618 %
B 208.959 (ETA AQ-Axial-iFR)	0.986 ppm	98.640 %
P 213.618 (ETA AQ-Axial-iFR)	24.873 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.957 ppm	95.743 %
Y 224.306 (ETA AQ-Axial-iFR)	103.023 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.556 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.973 ppm	97.285 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.963 ppm	96.257 %
In 230.606 (ETA AQ-Axial-iFR)	106.039 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.965 ppm	96.468 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.947 ppm	94.734 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.324 ppm	98.647 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.985 ppm	98.512 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.594 ppm	97.189 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.160 ppm	98.320 %
Si 288.158 (ETA AQ-Radial-iFR)	9.610 ppm	96.098 %
V 292.402 (ETA AQ-Axial-iFR)	0.972 ppm	97.203 %
Al 308.215 (ETA AQ-Radial-iFR)	48.555 ppm	97.109 %
Be 313.042 (ETA AQ-Radial-iFR)	0.960 ppm	95.951 %
Ca 317.933 (ETA AQ-Radial-iFR)	50.013 ppm	100.026 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.949 ppm	94.936 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.972 ppm	97.248 %
Ti 334.904 (ETA AQ-Axial-iFR)	1.004 ppm	100.374 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.945 ppm	94.513 %
Y 360.073 (ETA AQ-Axial-iFR)	102.990 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.028 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.557 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.957 ppm	95.714 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.971 ppm	97.072 %
Na 589.592 (ETA AQ-Radial-iFR)	49.454 ppm	98.907 %
Li 670.784 (ETA AQ-Radial-iFR)	0.971 ppm	97.148 %
K 766.490 (ETA AQ-Radial-iFR)	49.523 ppm	99.046 %
Na 818.326 (ETA AQ-Radial-iFR)	47.627 ppm	95.253 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	889 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
As 189.042 (ETA AQ-Axial-iFR)	93 cps
Sn 189.989 (ETA AQ-Axial-iFR)	164 cps
Tl 190.856 (ETA AQ-Axial-iFR)	83 cps
Se 196.090 (ETA AQ-Axial-iFR)	81 cps
Mo 202.030 (ETA AQ-Axial-iFR)	456 cps
Zn 206.200 (ETA AQ-Axial-iFR)	781 cps
Sb 206.833 (ETA AQ-Axial-iFR)	96 cps
B 208.959 (ETA AQ-Axial-iFR)	288 cps
P 213.618 (ETA AQ-Axial-iFR)	2,337 cps
Pb 220.353 (ETA AQ-Axial-iFR)	124 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	574 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1,181 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	415 cps
Mn 257.610 (ETA AQ-Radial-iFR)	3,638 cps
Fe 259.940 (ETA AQ-Axial-iFR)	53,681 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1,285 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1,157 cps
Mg 279.079 (ETA AQ-Radial-iFR)	3,514 cps
Si 288.158 (ETA AQ-Radial-iFR)	1,343 cps
V 292.402 (ETA AQ-Axial-iFR)	2,898 cps
Al 308.215 (ETA AQ-Radial-iFR)	4,414 cps
Be 313.042 (ETA AQ-Radial-iFR)	22,344 cps
Ca 317.933 (ETA AQ-Radial-iFR)	13,633 cps
Cu 327.396 (ETA AQ-Axial-iFR)	3,001 cps
Ag 328.068 (ETA AQ-Axial-iFR)	3,654 cps
Ti 334.904 (ETA AQ-Axial-iFR)	3,735 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9,470 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	34,483 cps
Ba 455.403 (ETA AQ-Radial-iFR)	21,443 cps
Na 589.592 (ETA AQ-Radial-iFR)	32,880 cps
Li 670.784 (ETA AQ-Radial-iFR)	2,848 cps
K 766.490 (ETA AQ-Radial-iFR)	7,600 cps
Na 818.326 (ETA AQ-Radial-iFR)	878 cps

Label: CCB-8122474 #: 136
Analysis Type: QC Analysis started at: 10/30/2024 6:04:24 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.014 ppm	-7.094 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	11.622 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-12.843 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	17.250 %
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	10.547 %
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	-7.082 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	-2.963 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	2.237 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	9.050 %
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	2.217 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Y 224.306 (ETA AQ-Axial-iFR)	102.671 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.072 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	1.505 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	9.119 %
In 230.606 (ETA AQ-Axial-iFR)	103.972 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	1.067 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.017 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.004 ppm	0.370 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	2.844 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.005 ppm	10.664 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.004 ppm	2.022 %
Si 288.158 (ETA AQ-Radial-iFR)	-0.008 ppm	-1.536 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-0.030 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.008 ppm	-4.158 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	-1.169 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.001 ppm	0.129 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	6.198 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	0.985 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	9.212 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.015 %
Y 360.073 (ETA AQ-Axial-iFR)	100.975 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.860 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.297 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.923 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	4.840 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.006 ppm	-0.559 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-2.365 %
K 766.490 (ETA AQ-Radial-iFR)	0.017 ppm	3.396 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.199 ppm	-19.901 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-2 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	1 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	6 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	6 cps
V 292.402 (ETA AQ-Axial-iFR)	-3 cps
Al 308.215 (ETA AQ-Radial-iFR)	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	-3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8 cps

Analyte (Measure Mode)	IS Corrected Intensity Average
Cu 327.396 (ETA AQ-Axial-iFR)	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-20 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	7 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-9 cps
Ba 455.403 (ETA AQ-Radial-iFR)	3 cps
Na 589.592 (ETA AQ-Radial-iFR)	20 cps
Li 670.784 (ETA AQ-Radial-iFR)	1 cps
K 766.490 (ETA AQ-Radial-iFR)	6 cps
Na 818.326 (ETA AQ-Radial-iFR)	-5 cps

Label: CCVL-8122384 #: 137
Analysis Type: QC Analysis started at: 10/30/2024 6:06:19 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.175 ppm	87.741 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	102.310 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	98.001 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.018 ppm	88.862 %
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	83.450 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	83.025 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	103.075 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.020 ppm	100.315 %
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	96.536 %
P 213.618 (ETA AQ-Axial-iFR)	0.003 ppm	
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	94.676 %
Y 224.306 (ETA AQ-Axial-iFR)	102.640 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.823 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	106.739 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	93.464 %
In 230.606 (ETA AQ-Axial-iFR)	104.272 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	95.271 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	91.007 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.057 ppm	113.810 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	102.521 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.066 ppm	131.647 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.202 ppm	100.946 %
Si 288.158 (ETA AQ-Radial-iFR)	0.442 ppm	88.304 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	90.255 %
Al 308.215 (ETA AQ-Radial-iFR)	0.182 ppm	90.867 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	94.462 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.488 ppm	97.618 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.010 ppm	96.060 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	95.317 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	101.824 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	90.089 %
Y 360.073 (ETA AQ-Axial-iFR)	101.396 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.265 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.688 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	91.942 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	105.224 %
Na 589.592 (ETA AQ-Radial-iFR)	0.987 ppm	98.707 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	95.113 %
K 766.490 (ETA AQ-Radial-iFR)	0.478 ppm	95.695 %
Na 818.326 (ETA AQ-Radial-iFR)	0.669 ppm	66.937 %

Analyte (Measure Mode)	IS Corrected Intensity Average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	4 cps
Zn 206.200 (ETA AQ-Axial-iFR)	8 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	741 cps
Y 224.306 (ETA AQ-Radial-iFR)	198 cps
Co 228.616 (ETA AQ-Axial-iFR)	2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	624 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	10 cps
Fe 259.940 (ETA AQ-Axial-iFR)	64 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2 cps
Mg 279.079 (ETA AQ-Radial-iFR)	14 cps
Si 288.158 (ETA AQ-Radial-iFR)	68 cps
V 292.402 (ETA AQ-Axial-iFR)	12 cps
Al 308.215 (ETA AQ-Radial-iFR)	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	41 cps
Ca 317.933 (ETA AQ-Radial-iFR)	141 cps
Cu 327.396 (ETA AQ-Axial-iFR)	27 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	15 cps
Ti 334.941 (ETA AQ-Axial-iFR)	51 cps
Y 360.073 (ETA AQ-Axial-iFR)	11,751 cps
Y 360.073 (ETA AQ-Radial-iFR)	2,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	3,148 cps
Sr 407.771 (ETA AQ-Radial-iFR)	159 cps
Ba 455.403 (ETA AQ-Radial-iFR)	47 cps
Na 589.592 (ETA AQ-Radial-iFR)	680 cps
Li 670.784 (ETA AQ-Radial-iFR)	87 cps
K 766.490 (ETA AQ-Radial-iFR)	77 cps
Na 818.326 (ETA AQ-Radial-iFR)	11 cps

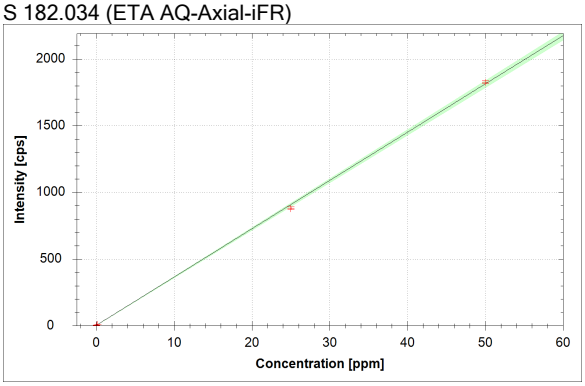
Calibration Summary

10/30/2024 1:51:00 PM

LabBook: I320241030A.imexp

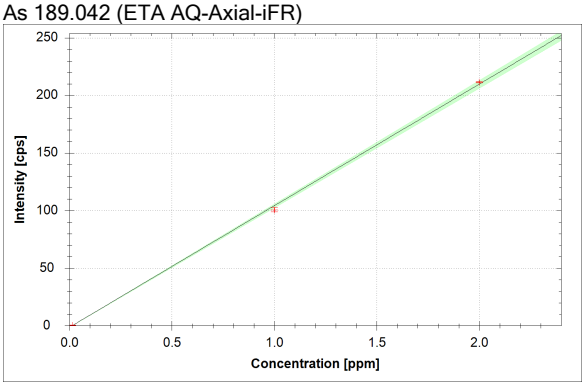
Calibration Graphs

S 182.034 (ETA AQ-Axial-iFR)



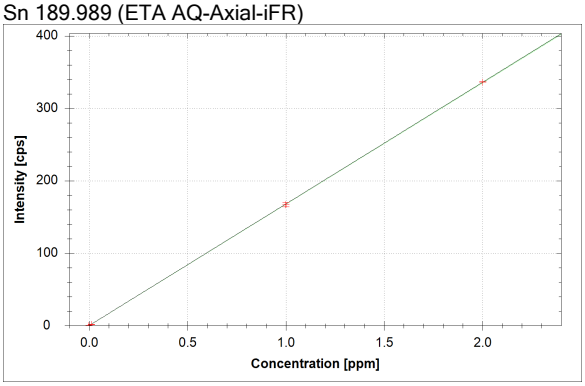
f(x) = 36.1915*x + 3.3327
R² = 0.9996
BEC = 0.092 ppm
LoD = 0.0186 ppm

As 189.042 (ETA AQ-Axial-iFR)



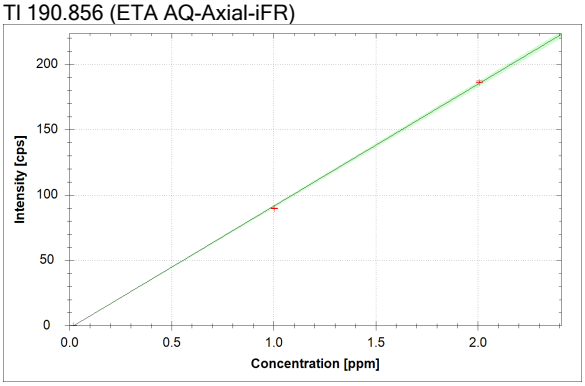
f(x) = 105.5722*x + -1.3205
R² = 0.9995
BEC = -0.013 ppm
LoD = 0.0035 ppm

Sn 189.989 (ETA AQ-Axial-iFR)



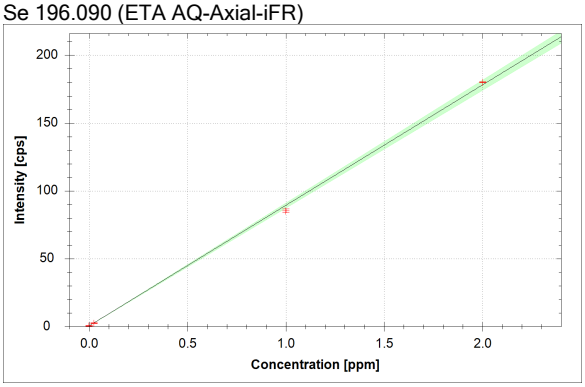
f(x) = 167.8043*x + 0.2099
R² = 1.0000
BEC = 0.001 ppm
LoD = 0.0015 ppm

Tl 190.856 (ETA AQ-Axial-iFR)



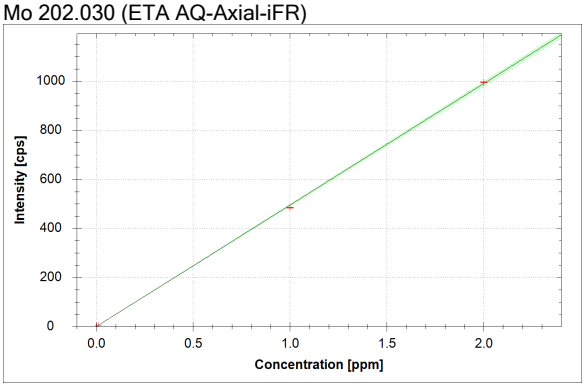
f(x) = 93.3048*x + -1.9014
R² = 0.9998
BEC = -0.020 ppm
LoD = 0.0134 ppm

Se 196.090 (ETA AQ-Axial-iFR)



f(x) = 88.7277*x + 0.5949
R² = 0.9991
BEC = 0.007 ppm
LoD = 0.0086 ppm

Mo 202.030 (ETA AQ-Axial-iFR)



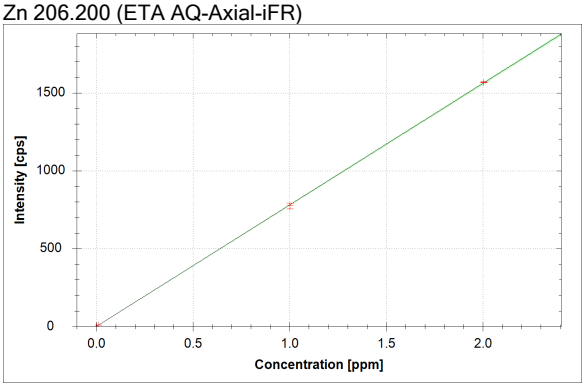
f(x) = 495.1211*x + 0.0813
R² = 0.9998
BEC = 0.000 ppm
LoD = 0.0005 ppm

Calibration Summary

10/30/2024 1:51:00 PM

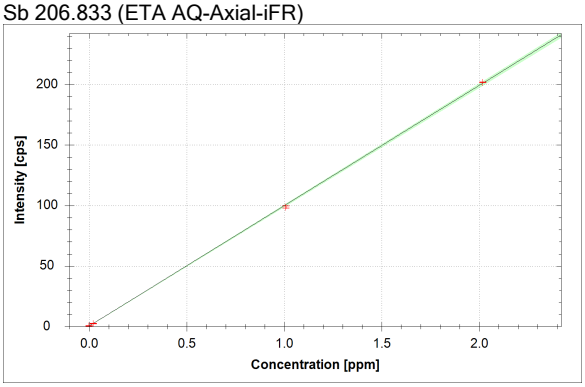
QTEGRA

Zn 206.200 (ETA AQ-Axial-iFR)



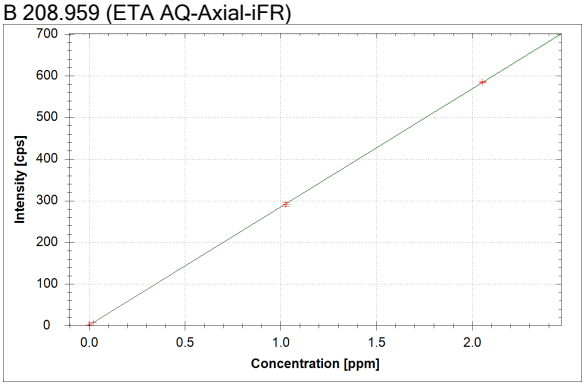
f(x) = 779.9093*x + 0.3784
R² = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Sb 206.833 (ETA AQ-Axial-iFR)



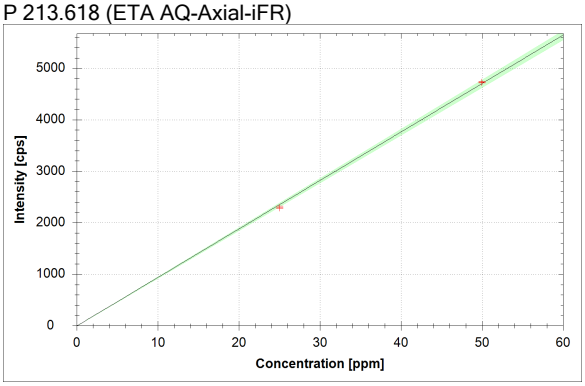
f(x) = 99.3800*x + 0.4766
R² = 0.9998
BEC = 0.005 ppm
LoD = 0.0080 ppm

B 208.959 (ETA AQ-Axial-iFR)



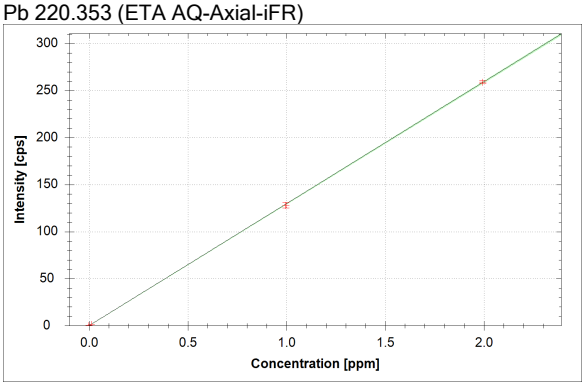
f(x) = 283.6890*x + 1.4711
R² = 1.0000
BEC = 0.005 ppm
LoD = 0.0026 ppm

P 213.618 (ETA AQ-Axial-iFR)



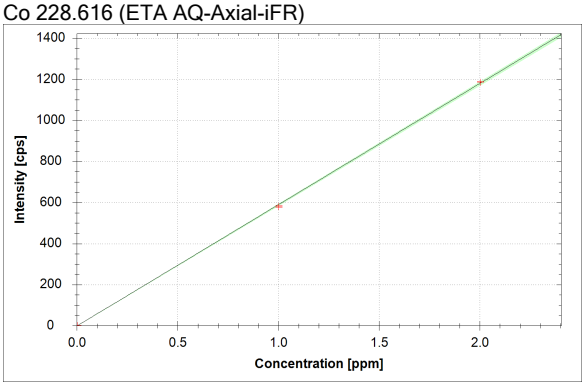
f(x) = 94.0925*x + -2.8649
R² = 0.9996
BEC = -0.030 ppm
LoD = 0.0083 ppm

Pb 220.353 (ETA AQ-Axial-iFR)



f(x) = 129.6130*x + 0.1426
R² = 1.0000
BEC = 0.001 ppm
LoD = 0.0012 ppm

Co 228.616 (ETA AQ-Axial-iFR)



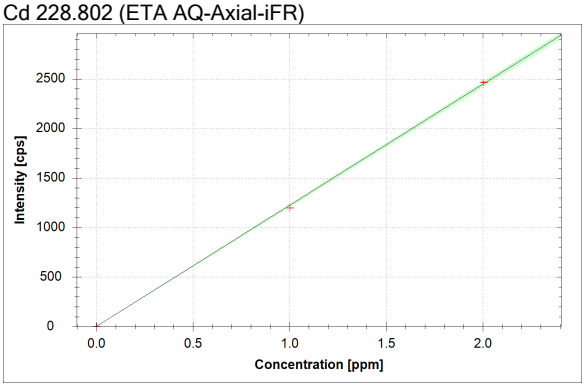
f(x) = 590.2954*x + -0.9743
R² = 0.9999
BEC = -0.002 ppm
LoD = 0.0011 ppm

Calibration Summary

10/30/2024 1:51:00 PM

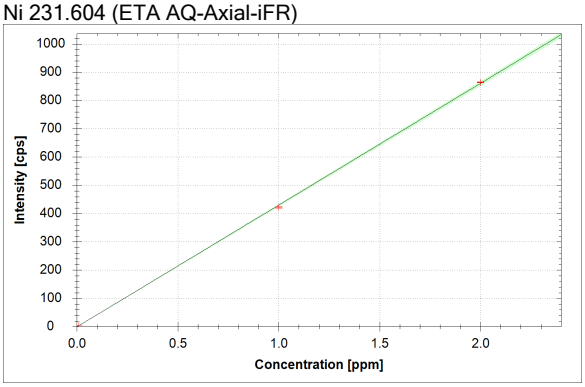
QTEGRA

Cd 228.802 (ETA AQ-Axial-iFR)



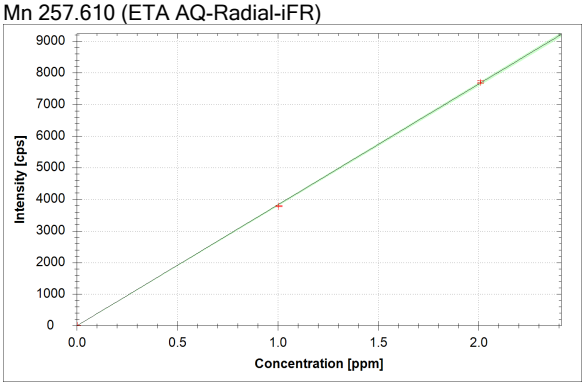
f(x) = 1222.4333*x + 1.2156
R² = 0.9998
BEC = 0.001 ppm
LoD = 0.0002 ppm

Ni 231.604 (ETA AQ-Axial-iFR)



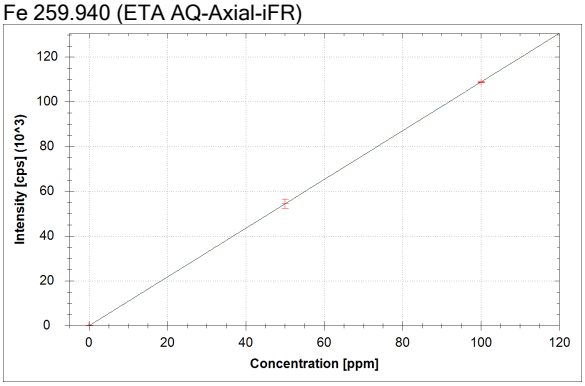
f(x) = 430.8875*x + -1.0210
R² = 0.9999
BEC = -0.002 ppm
LoD = 0.0006 ppm

Mn 257.610 (ETA AQ-Radial-iFR)



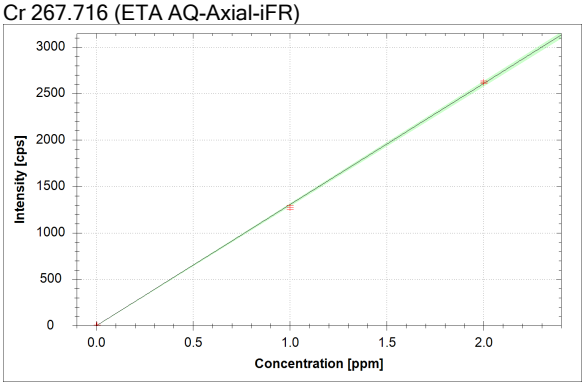
f(x) = 3822.2226*x + -0.1964
R² = 0.9999
BEC = 0.000 ppm
LoD = 0.0003 ppm

Fe 259.940 (ETA AQ-Axial-iFR)



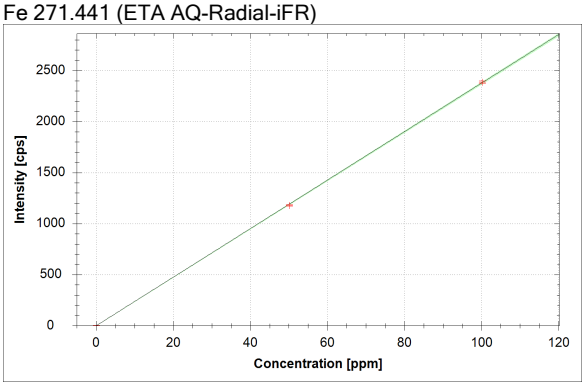
f(x) = 1088.1293*x + 2.3607
R² = 1.0000
BEC = 0.002 ppm
LoD = 0.0005 ppm

Cr 267.716 (ETA AQ-Axial-iFR)



f(x) = 1304.0398*x + 0.1469
R² = 0.9998
BEC = 0.000 ppm
LoD = 0.0006 ppm

Fe 271.441 (ETA AQ-Radial-iFR)



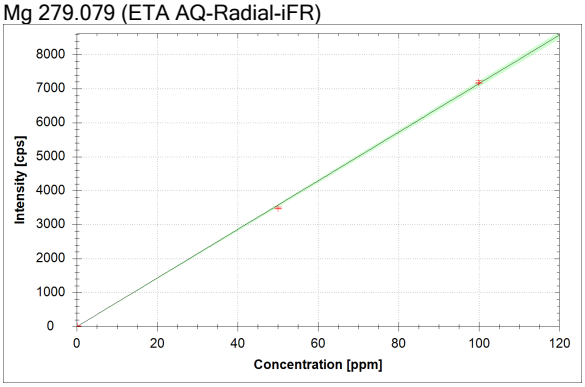
f(x) = 23.7491*x + 0.6464
R² = 0.9999
BEC = 0.027 ppm
LoD = 0.0687 ppm

Calibration Summary

10/30/2024 1:51:00 PM

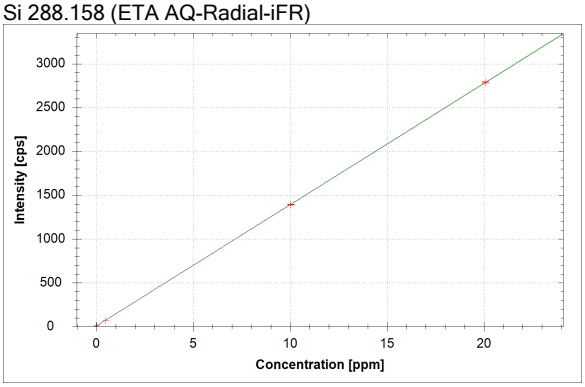
QTEGRA

Mg 279.079 (ETA AQ-Radial-iFR)



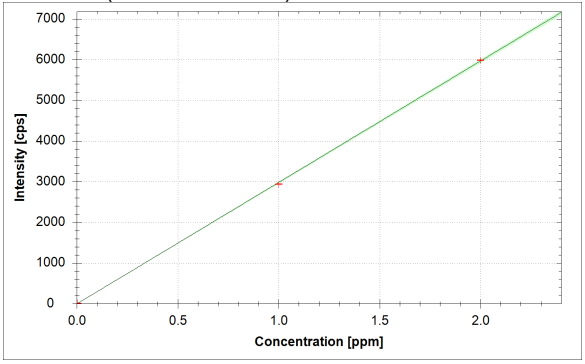
f(x) = 71.4830*x + -0.1109
R² = 0.9997
BEC = -0.002 ppm
LoD = 0.0159 ppm

Si 288.158 (ETA AQ-Radial-iFR)



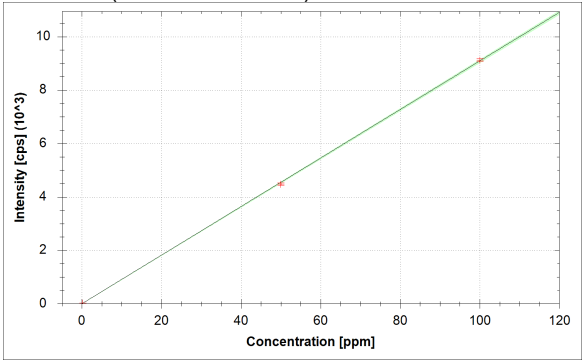
f(x) = 138.4549*x + 7.2807
R² = 1.0000
BEC = 0.053 ppm
LoD = 0.0129 ppm

V 292.402 (ETA AQ-Axial-iFR)



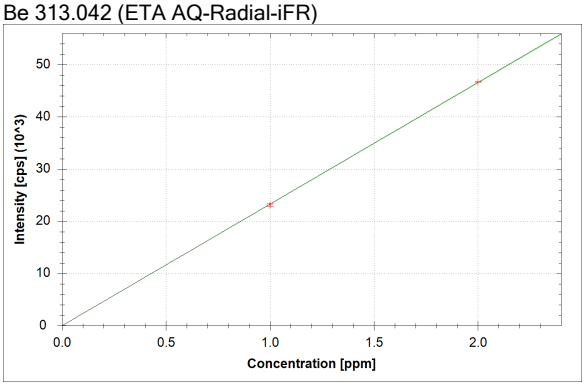
f(x) = 2983.7678*x + -1.9223
R² = 0.9999
BEC = -0.001 ppm
LoD = 0.0003 ppm

Al 308.215 (ETA AQ-Radial-iFR)



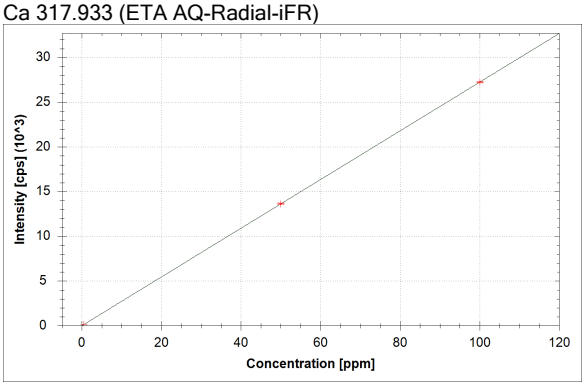
f(x) = 90.8922*x + 1.1246
R² = 0.9999
BEC = 0.012 ppm
LoD = 0.0129 ppm

Be 313.042 (ETA AQ-Radial-iFR)



f(x) = 23289.9602*x + -2.9003
R² = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Ca 317.933 (ETA AQ-Radial-iFR)



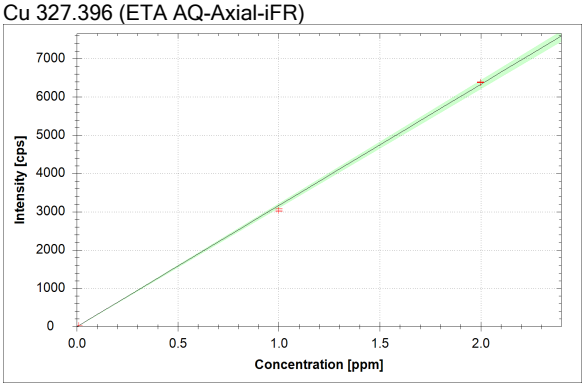
f(x) = 272.3244*x + 7.5811
R² = 1.0000
BEC = 0.028 ppm
LoD = 0.0037 ppm

Calibration Summary

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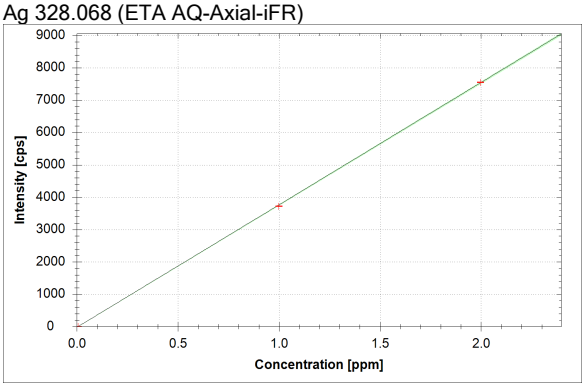
QTEGRA

Cu 327.396 (ETA AQ-Axial-iFR)



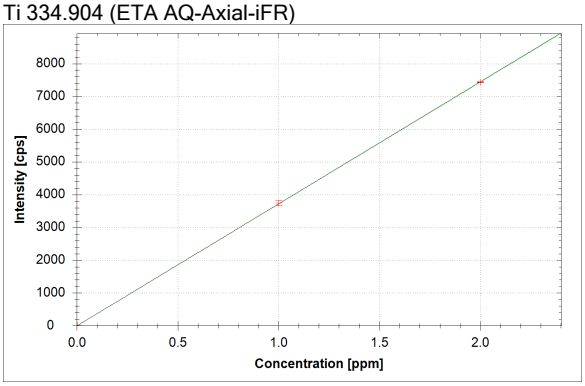
f(x) = 3166.0322*x + -3.2753
R² = 0.9994
BEC = -0.001 ppm
LoD = 0.0007 ppm

Ag 328.068 (ETA AQ-Axial-iFR)



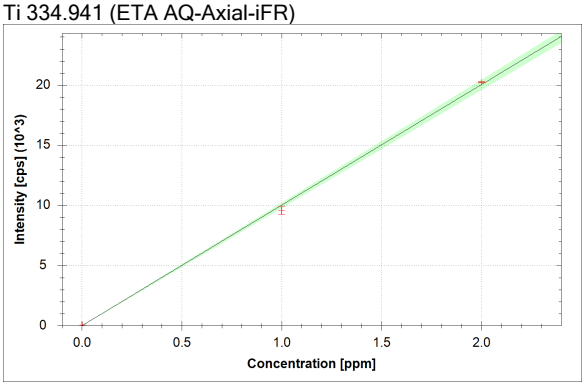
f(x) = 3783.2895*x + -19.8886
R² = 1.0000
BEC = -0.005 ppm
LoD = 0.0001 ppm

Ti 334.904 (ETA AQ-Axial-iFR)



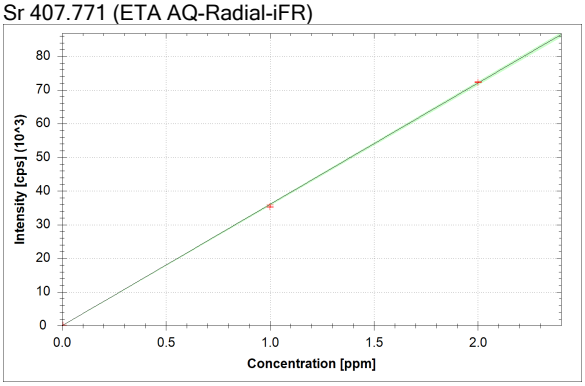
f(x) = 3722.6774*x + -4.3006
R² = 1.0000
BEC = -0.001 ppm
LoD = 0.0002 ppm

Ti 334.941 (ETA AQ-Axial-iFR)



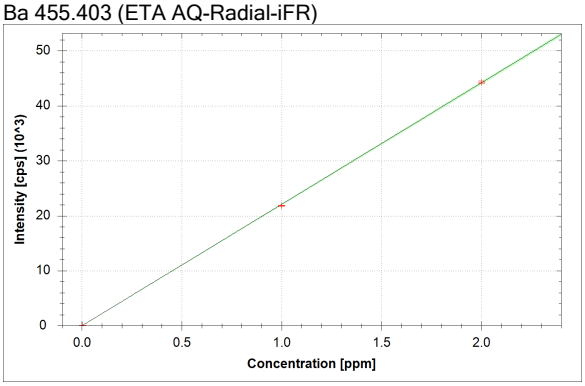
f(x) = 10014.0433*x + 5.4497
R² = 0.9992
BEC = 0.001 ppm
LoD = 0.0001 ppm

Sr 407.771 (ETA AQ-Radial-iFR)



f(x) = 36034.4286*x + -6.9652
R² = 0.9999
BEC = 0.000 ppm
LoD = 0.0001 ppm

Ba 455.403 (ETA AQ-Radial-iFR)



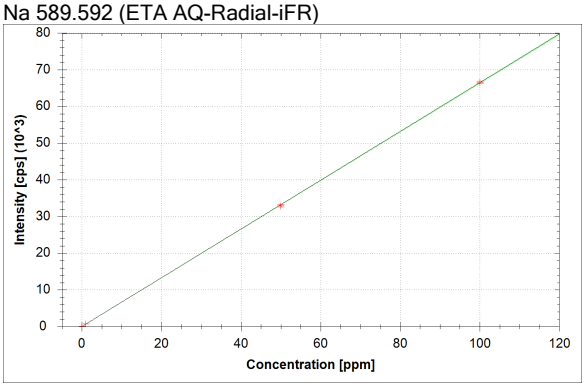
f(x) = 22086.7285*x + 0.7984
R² = 0.9999
BEC = 0.000 ppm
LoD = 0.0002 ppm

Calibration Summary

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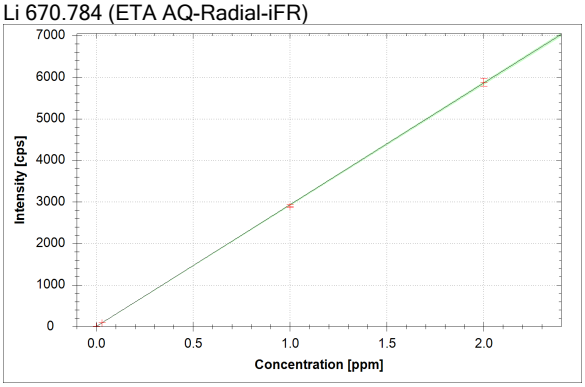
QTEGRA

Na 589.592 (ETA AQ-Radial-iFR)



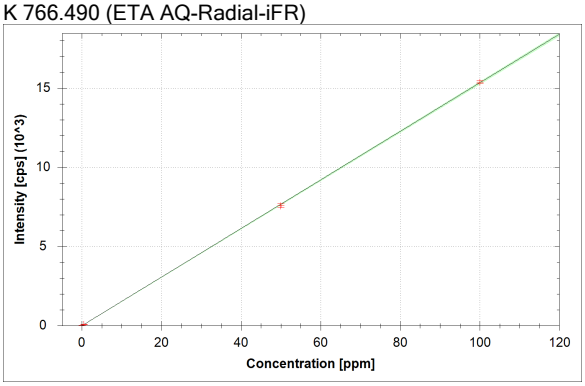
f(x) = 664.3837*x + 24.1150
R² = 1.0000
BEC = 0.036 ppm
LoD = 0.0087 ppm

Li 670.784 (ETA AQ-Radial-iFR)



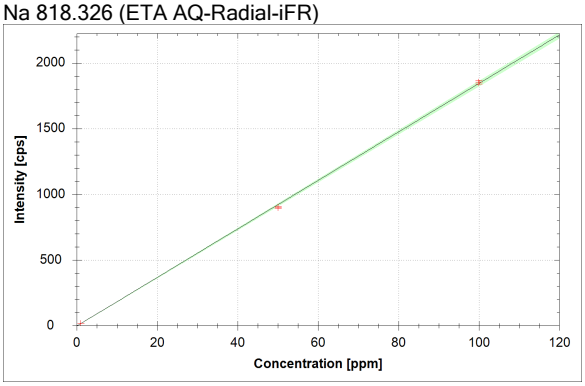
f(x) = 2928.5568*x + 3.3966
R² = 0.9999
BEC = 0.001 ppm
LoD = 0.0009 ppm

K 766.490 (ETA AQ-Radial-iFR)



f(x) = 153.3986*x + 3.3888
R² = 0.9999
BEC = 0.022 ppm
LoD = 0.0403 ppm

Na 818.326 (ETA AQ-Radial-iFR)



f(x) = 18.4549*x + -1.0542
R² = 0.9998
BEC = -0.057 ppm
LoD = 0.2085 ppm

Calibration Summary

10/30/2024 1:51:00 PM

QTEGRA

Standards

Standard: IC-8122384
Analysis started at: 10/30/2024 9:48:47 AM
Standard (Stock): IC-8122384
Standard DF: 1

Analyte (Measure Mode)	Concentration average	Concentration RSD	Standard Concentration	Intensity average	Standard Relative Difference
S 182.034 (ETA AQ-Axial-iFR)	0.175 ppm	3.8 %	0.200 ppm	10 cps	12.675 %
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	12.7 %	0.015 ppm	0 cps	3.453 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.010 ppm	16.5 %	0.010 ppm	2 cps	4.576 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.020 ppm	13.4 %	0.020 ppm	0 cps	1.190 %
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	11.4 %	0.025 ppm	3 cps	15.349 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	4.7 %	0.010 ppm	5 cps	5.328 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.011 ppm	2.2 %	0.010 ppm	10 cps	12.685 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.019 ppm	16.6 %	0.020 ppm	2 cps	5.707 %
B 208.959 (ETA AQ-Axial-iFR)	0.019 ppm	4.1 %	0.020 ppm	7 cps	4.060 %
P 213.618 (ETA AQ-Axial-iFR)	N/A	N/A	N/A	-3 cps	N/A
Pb 220.353 (ETA AQ-Axial-iFR)	0.010 ppm	6.5 %	0.010 ppm	2 cps	0.740 %
Y 224.306 (ETA AQ-Axial-iFR)	104.388 %	0.3 %		773 cps	0.000 %
Y 224.306 (ETA AQ-Radial-iFR)	101.250 %	0.9 %		201 cps	0.000 %
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	13.1 %	0.004 ppm	2 cps	4.535 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	6.1 %	0.002 ppm	4 cps	11.976 %
In 230.606 (ETA AQ-Axial-iFR)	104.708 %	0.3 %		654 cps	0.000 %
Ni 231.604 (ETA AQ-Axial-iFR)	0.011 ppm	8.2 %	0.010 ppm	4 cps	7.973 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	4.0 %	0.003 ppm	11 cps	1.752 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.056 ppm	0.5 %	0.050 ppm	67 cps	12.923 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	4.5 %	0.004 ppm	6 cps	4.247 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.044 ppm	12.3 %	0.050 ppm	2 cps	12.651 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.195 ppm	2.8 %	0.200 ppm	14 cps	2.491 %
Si 288.158 (ETA AQ-Radial-iFR)	0.454 ppm	1.7 %	0.500 ppm	71 cps	9.194 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	4.4 %	0.005 ppm	12 cps	7.960 %
Al 308.215 (ETA AQ-Radial-iFR)	0.195 ppm	2.2 %	0.200 ppm	19 cps	2.315 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	4.2 %	0.002 ppm	44 cps	0.075 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.497 ppm	0.3 %	0.500 ppm	144 cps	0.635 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	3.8 %	0.010 ppm	26 cps	9.691 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	2.8 %	0.006 ppm	3 cps	1.224 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	3.0 %	0.005 ppm	17 cps	8.198 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	1.4 %	0.005 ppm	53 cps	9.505 %
Y 360.073 (ETA AQ-Axial-iFR)	104.653 %	0.3 %		12,298 cps	0.000 %
Y 360.073 (ETA AQ-Radial-iFR)	100.827 %	0.8 %		2,514 cps	0.000 %
Y 377.433 (ETA AQ-Radial-iFR)	100.515 %	0.9 %		3,165 cps	0.000 %
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	0.3 %	0.005 ppm	165 cps	4.939 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	4.9 %	0.002 ppm	45 cps	0.064 %
Na 589.592 (ETA AQ-Radial-iFR)	1.003 ppm	0.4 %	1.000 ppm	694 cps	0.268 %
Li 670.784 (ETA AQ-Radial-iFR)	0.030 ppm	2.3 %	0.030 ppm	93 cps	1.338 %
K 766.490 (ETA AQ-Radial-iFR)	0.494 ppm	3.7 %	0.500 ppm	80 cps	1.109 %
Na 818.326 (ETA AQ-Radial-iFR)	0.979 ppm	3.9 %	1.000 ppm	17 cps	2.114 %

Standard: IC-8122450
Analysis started at: 10/30/2024 9:52:33 AM
Standard (Stock): IC-8122450
Standard DF: 1

Analyte (Measure Mode)	Concentration average	Concentration RSD	Standard Concentration	Intensity average	Standard Relative Difference
S 182.034 (ETA AQ-Axial-iFR)	50.385 ppm	0.6 %	50.000 ppm	1,910 cps	0.770 %
As 189.042 (ETA AQ-Axial-iFR)	2.017 ppm	0.4 %	2.000 ppm	221 cps	0.851 %
Sn 189.989 (ETA AQ-Axial-iFR)	2.002 ppm	0.1 %	2.000 ppm	361 cps	0.125 %
Tl 190.856 (ETA AQ-Axial-iFR)	2.011 ppm	0.4 %	2.000 ppm	200 cps	0.552 %
Se 196.090 (ETA AQ-Axial-iFR)	2.023 ppm	0.2 %	2.000 ppm	188 cps	1.129 %
Mo 202.030 (ETA AQ-Axial-iFR)	2.011 ppm	0.2 %	2.000 ppm	1,041 cps	0.550 %
Zn 206.200 (ETA AQ-Axial-iFR)	2.005 ppm	0.3 %	2.000 ppm	1,655 cps	0.265 %
Sb 206.833 (ETA AQ-Axial-iFR)	2.009 ppm	0.1 %	2.000 ppm	211 cps	0.462 %
B 208.959 (ETA AQ-Axial-iFR)	2.003 ppm	0.3 %	2.000 ppm	611 cps	0.126 %
P 213.618 (ETA AQ-Axial-iFR)	50.299 ppm	0.3 %	50.000 ppm	4,944 cps	0.598 %
Pb 220.353 (ETA AQ-Axial-iFR)	2.004 ppm	0.5 %	2.000 ppm	278 cps	0.220 %
Y 224.306 (ETA AQ-Axial-iFR)	104.537 %	0.3 %		774 cps	0.000 %
Y 224.306 (ETA AQ-Radial-iFR)	98.551 %	0.6 %		195 cps	0.000 %

Calibration Summary

10/30/2024 1:51:00 PM

QTEGRA

Analyte (Measure Mode)	Concentration average	Concentration RSD	Standard Concentration	Intensity average	Standard Relative Difference
Co 228.616 (ETA AQ-Axial-iFR)	2.008 ppm	0.1 %	2.000 ppm	1,273 cps	0.413 %
Cd 228.802 (ETA AQ-Axial-iFR)	2.012 ppm	0.2 %	2.000 ppm	2,578 cps	0.589 %
In 230.606 (ETA AQ-Axial-iFR)	107.335 %	0.2 %		670 cps	0.000 %
Ni 231.604 (ETA AQ-Axial-iFR)	2.009 ppm	0.2 %	2.000 ppm	928 cps	0.452 %
Mn 257.610 (ETA AQ-Radial-iFR)	2.007 ppm	0.6 %	2.000 ppm	7,512 cps	0.369 %
Fe 259.940 (ETA AQ-Axial-iFR)	99.989 ppm	0.2 %	100.000 ppm	113,756 cps	0.011 %
Cr 267.716 (ETA AQ-Axial-iFR)	2.011 ppm	0.5 %	2.000 ppm	2,769 cps	0.564 %
Fe 271.441 (ETA AQ-Radial-iFR)	100.266 ppm	0.4 %	100.000 ppm	2,325 cps	0.266 %
Mg 279.079 (ETA AQ-Radial-iFR)	100.592 ppm	0.7 %	100.000 ppm	7,008 cps	0.592 %
Si 288.158 (ETA AQ-Radial-iFR)	20.023 ppm	0.4 %	20.000 ppm	2,719 cps	0.115 %
V 292.402 (ETA AQ-Axial-iFR)	2.007 ppm	0.2 %	2.000 ppm	6,320 cps	0.375 %
Al 308.215 (ETA AQ-Radial-iFR)	100.357 ppm	0.7 %	100.000 ppm	8,891 cps	0.357 %
Be 313.042 (ETA AQ-Radial-iFR)	2.004 ppm	0.1 %	2.000 ppm	45,475 cps	0.179 %
Ca 317.933 (ETA AQ-Radial-iFR)	100.002 ppm	0.3 %	100.000 ppm	26,560 cps	0.002 %
Cu 327.396 (ETA AQ-Axial-iFR)	2.019 ppm	0.2 %	2.000 ppm	6,674 cps	0.936 %
Ag 328.068 (ETA AQ-Axial-iFR)	2.005 ppm	0.1 %	2.000 ppm	7,972 cps	0.230 %
Ti 334.904 (ETA AQ-Axial-iFR)	1.997 ppm	0.2 %	2.000 ppm	7,849 cps	0.144 %
Ti 334.941 (ETA AQ-Axial-iFR)	2.022 ppm	0.3 %	2.000 ppm	21,372 cps	1.080 %
Y 360.073 (ETA AQ-Axial-iFR)	105.542 %	0.3 %		12,402 cps	0.000 %
Y 360.073 (ETA AQ-Radial-iFR)	98.113 %	0.7 %		2,446 cps	0.000 %
Y 377.433 (ETA AQ-Radial-iFR)	97.459 %	0.6 %		3,068 cps	0.000 %
Sr 407.771 (ETA AQ-Radial-iFR)	2.008 ppm	0.2 %	2.000 ppm	70,510 cps	0.398 %
Ba 455.403 (ETA AQ-Radial-iFR)	2.006 ppm	0.4 %	2.000 ppm	43,194 cps	0.322 %
Na 589.592 (ETA AQ-Radial-iFR)	100.218 ppm	0.5 %	100.000 ppm	64,914 cps	0.218 %
Li 670.784 (ETA AQ-Radial-iFR)	2.006 ppm	1.5 %	2.000 ppm	5,729 cps	0.318 %
K 766.490 (ETA AQ-Radial-iFR)	100.298 ppm	0.6 %	100.000 ppm	14,997 cps	0.298 %
Na 818.326 (ETA AQ-Radial-iFR)	100.564 ppm	0.8 %	100.000 ppm	1,808 cps	0.564 %

Standard: IC-8122457
Analysis started at: 10/30/2024 9:50:40 AM
Standard (Stock): IC-8122457
Standard DF: 1

Analyte (Measure Mode)	Concentration average	Concentration RSD	Standard Concentration	Intensity average	Standard Relative Difference
S 182.034 (ETA AQ-Axial-iFR)	24.231 ppm	1.1 %	25.000 ppm	920 cps	3.078 %
As 189.042 (ETA AQ-Axial-iFR)	0.966 ppm	1.7 %	1.000 ppm	105 cps	3.406 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.995 ppm	2.0 %	1.000 ppm	178 cps	0.498 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.978 ppm	0.4 %	1.000 ppm	95 cps	2.209 %
Se 196.090 (ETA AQ-Axial-iFR)	0.955 ppm	1.7 %	1.000 ppm	89 cps	4.508 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.978 ppm	0.3 %	1.000 ppm	506 cps	2.201 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.989 ppm	2.4 %	1.000 ppm	819 cps	1.063 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.982 ppm	1.2 %	1.000 ppm	103 cps	1.846 %
B 208.959 (ETA AQ-Axial-iFR)	0.995 ppm	1.7 %	1.000 ppm	305 cps	0.501 %
P 213.618 (ETA AQ-Axial-iFR)	24.402 ppm	1.2 %	25.000 ppm	2,397 cps	2.392 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.991 ppm	2.3 %	1.000 ppm	136 cps	0.879 %
Y 224.306 (ETA AQ-Axial-iFR)	104.522 %	0.8 %		774 cps	0.000 %
Y 224.306 (ETA AQ-Radial-iFR)	100.130 %	2.2 %		199 cps	0.000 %
Co 228.616 (ETA AQ-Axial-iFR)	0.983 ppm	0.9 %	1.000 ppm	617 cps	1.653 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.976 ppm	0.2 %	1.000 ppm	1,252 cps	2.356 %
In 230.606 (ETA AQ-Axial-iFR)	106.310 %	2.3 %		664 cps	0.000 %
Ni 231.604 (ETA AQ-Axial-iFR)	0.982 ppm	0.6 %	1.000 ppm	449 cps	1.807 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.985 ppm	0.7 %	1.000 ppm	3,734 cps	1.478 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.022 ppm	3.9 %	50.000 ppm	56,916 cps	0.045 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.977 ppm	1.8 %	1.000 ppm	1,349 cps	2.254 %
Fe 271.441 (ETA AQ-Radial-iFR)	49.469 ppm	0.6 %	50.000 ppm	1,162 cps	1.062 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.817 ppm	0.7 %	50.000 ppm	3,444 cps	2.367 %
Si 288.158 (ETA AQ-Radial-iFR)	9.956 ppm	0.4 %	10.000 ppm	1,373 cps	0.436 %
V 292.402 (ETA AQ-Axial-iFR)	0.985 ppm	0.5 %	1.000 ppm	3,108 cps	1.498 %
Al 308.215 (ETA AQ-Radial-iFR)	49.286 ppm	1.0 %	50.000 ppm	4,422 cps	1.428 %
Be 313.042 (ETA AQ-Radial-iFR)	0.993 ppm	1.3 %	1.000 ppm	22,820 cps	0.716 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.995 ppm	0.6 %	50.000 ppm	13,450 cps	0.010 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.963 ppm	1.2 %	1.000 ppm	3,180 cps	3.744 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.991 ppm	0.5 %	1.000 ppm	3,940 cps	0.922 %
Ti 334.904 (ETA AQ-Axial-iFR)	1.006 ppm	2.0 %	1.000 ppm	3,961 cps	0.576 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.957 ppm	3.3 %	1.000 ppm	10,145 cps	4.320 %
Y 360.073 (ETA AQ-Axial-iFR)	105.830 %	0.2 %		12,436 cps	0.000 %
Y 360.073 (ETA AQ-Radial-iFR)	99.263 %	1.1 %		2,475 cps	0.000 %

Calibration Summary

10/30/2024 1:51:00 PM

QTEGRA

Analyte (Measure Mode)	Concentration average	Concentration RSD	Standard Concentration	Intensity average	Standard Relative Difference
Y 377.433 (ETA AQ-Radial-iFR)	98.696 %	0.9 %		3,107 cps	0.000 %
Sr 407.771 (ETA AQ-Radial-iFR)	0.984 ppm	1.2 %	1.000 ppm	34,993 cps	1.591 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.987 ppm	0.5 %	1.000 ppm	21,520 cps	1.289 %
Na 589.592 (ETA AQ-Radial-iFR)	49.564 ppm	1.1 %	50.000 ppm	32,522 cps	0.871 %
Li 670.784 (ETA AQ-Radial-iFR)	0.987 ppm	1.4 %	1.000 ppm	2,857 cps	1.271 %
K 766.490 (ETA AQ-Radial-iFR)	49.404 ppm	1.5 %	50.000 ppm	7,482 cps	1.192 %
Na 818.326 (ETA AQ-Radial-iFR)	48.873 ppm	0.9 %	50.000 ppm	889 cps	2.254 %

Sample List Summary

10/30/2024 8:33:19 AM

LabBook: I420241029A -3.imexp

Summary

Index	Label	Sample Type	Amount	Final Quantity	Standard DF	Started at
1	Rinse Blank	UNKNOWN			1	10/29/2024 9:28:58 AM
2	ICIS-8122474	BLK			1	10/29/2024 9:31:00 AM
3	IC-8122384	STD			1	10/29/2024 9:32:54 AM
4	IC-8122457	STD			1	10/29/2024 9:34:47 AM
5	IC-8122450	STD			1	10/29/2024 9:36:40 AM
6	ICV-8122463	QC			1	10/29/2024 9:47:18 AM
7	ICV-8122463	QC			1	10/29/2024 9:57:09 AM
8	ICB-8122474	QC			1	10/29/2024 10:00:51 AM
9	ICVL-8122384	QC			1	10/29/2024 10:02:48 AM
10	ICSA-8095256	QC			1	10/29/2024 10:09:16 AM
11	ICSAB-8096364	QC			1	10/29/2024 10:11:16 AM
12	ICEX1	UNKNOWN			1	10/29/2024 10:13:09 AM
13	ICEX2	UNKNOWN			1	10/29/2024 10:15:02 AM
14	ICEX3	UNKNOWN			1	10/29/2024 10:16:56 AM
15	ICEX4	UNKNOWN			1	10/29/2024 10:18:49 AM
16	ICEX5	UNKNOWN			1	10/29/2024 10:20:42 AM
17	CCV-8122457	QC			1	10/29/2024 10:22:36 AM
18	CCB-8122474	QC			1	10/29/2024 10:24:30 AM
19	CCVL-8122384	QC			1	10/29/2024 10:26:24 AM
20	CCVL-8122384	QC			1	10/29/2024 10:31:07 AM
21	LRC-8136335	QC			1	10/29/2024 10:33:01 AM
22	Rinse Blank	UNKNOWN			1	10/29/2024 4:27:27 PM
23	CCV-8122457	QC			1	10/29/2024 4:29:24 PM
24	CCB-8122474	QC			1	10/29/2024 4:31:18 PM
25	CCVL-8122384	QC			1	10/29/2024 4:33:12 PM
26	mb 480-730151/1-a	UNKNOWN			1	10/29/2024 4:35:07 PM
27	lcs 480-730151/2-a	UNKNOWN			1	10/29/2024 4:37:00 PM
28	480-224807-i-1-b	UNKNOWN			1	10/29/2024 4:38:54 PM
29	480-224706-a-1-a	UNKNOWN			1	10/29/2024 4:40:47 PM
30	480-224844-f-1-a	UNKNOWN			1	10/29/2024 4:42:41 PM
31	480-224842-k-1-a	UNKNOWN			1	10/29/2024 4:44:34 PM
32	480-224842-k-2-a	UNKNOWN			1	10/29/2024 4:46:27 PM
33	480-224843-i-1-a	UNKNOWN			1	10/29/2024 4:48:21 PM
34	480-224843-i-2-a	UNKNOWN			1	10/29/2024 4:50:14 PM
35	CCV-8122457	QC			1	10/29/2024 4:52:08 PM
36	CCB-8122474	QC			1	10/29/2024 4:54:02 PM
37	CCVL-8122384	QC			1	10/29/2024 4:55:56 PM
38	480-224850-C-2-A	UNKNOWN			1	10/29/2024 4:57:51 PM
39	480-224850-C-3-A	UNKNOWN			1	10/29/2024 4:59:44 PM
40	480-224872-C-3-A	UNKNOWN			1	10/29/2024 5:01:38 PM
41	480-224872-C-3-ASD@5	UNKNOWN			1	10/29/2024 5:03:31 PM
42	480-224872-C-3-APDS	UNKNOWN			1	10/29/2024 5:05:25 PM
43	480-224872-C-3-B MS	UNKNOWN			1	10/29/2024 5:07:18 PM
44	480-224872-C-3-C MSD	UNKNOWN			1	10/29/2024 5:09:12 PM
45	rinse	UNKNOWN			1	10/29/2024 5:11:05 PM
46	CCV-8122457	QC			1	10/29/2024 5:12:59 PM
47	CCB-8122474	QC			1	10/29/2024 5:14:53 PM
48	CCVL-8122384	QC			1	10/29/2024 5:16:47 PM
49	MB 480-730259/1-A	UNKNOWN			1	10/29/2024 5:18:42 PM
50	LCS 480-730259/2-A	UNKNOWN			1	10/29/2024 5:20:35 PM
51	240-213309-D-1-A	UNKNOWN			1	10/29/2024 5:22:29 PM
52	240-213309-D-1-ASD@5	UNKNOWN			1	10/29/2024 5:24:23 PM
53	240-213309-D-1-APDS	UNKNOWN			1	10/29/2024 5:26:16 PM
54	240-213309-D-1-B MS	UNKNOWN			1	10/29/2024 5:28:10 PM
55	240-213309-D-1-C MSD	UNKNOWN			1	10/29/2024 5:30:04 PM
56	480-224885-A-1-A	UNKNOWN			1	10/29/2024 5:31:57 PM
57	rinse	UNKNOWN			1	10/29/2024 5:33:51 PM
58	CCV-8122457	QC			1	10/29/2024 5:35:45 PM
59	CCB-8122474	QC			1	10/29/2024 5:37:39 PM
60	CCVL-8122384	QC			1	10/29/2024 5:39:33 PM

Basic Sample Report
10/30/2024 8:33:32 AM

LabBook: I420241029A -3.imexp

Label: Rinse Blank #: 1
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 9:28:58 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.005 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.002 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	99.725 %	353 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.607 %	93 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.907 %	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	7 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.014 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.001 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.017 ppm	3 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.018 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.002 ppm	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-7 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.838 %	4,740 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.907 %	957 cps
Y 377.433 (ETA AQ-Axial-iFR)	98.840 %	6,634 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.252 %	1,323 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.010 ppm	-10 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.013 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.067 ppm	3 cps

Label: ICIS-8122474 #: 2
Analysis Type: BLK Analysis started at: 10/29/2024 9:31:00 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.000 %	354 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.000 %	95 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	100.000 %	339 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	7 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-7 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.000 %	4,796 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.000 %	958 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.000 %	6,712 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.000 %	1,333 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.000 ppm	-7 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
K 766.490 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps

Label: IC-8122384 #: 3
Analysis Type: STD Analysis started at: 10/29/2024 9:32:54 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.191 ppm	8 cps
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.008 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.022 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.022 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.010 ppm	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.021 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	0.020 ppm	7 cps
P 213.618 (ETA AQ-Axial-iFR)	N/A	-4 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Pb 220.353 (ETA AQ-Axial-iFR)	0.011 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.072 %	357 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.079 %	95 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	100.799 %	342 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.009 ppm	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	5 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.047 ppm	54 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.005 ppm	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.086 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.211 ppm	8 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.507 ppm	35 cps
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	5 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.186 ppm	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.488 ppm	96 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	14 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	3 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	38 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.098 %	4,801 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.385 %	962 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.374 %	6,737 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.419 %	1,338 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	94 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	19 cps
Na 589.592 (ETA AQ-Radial-iFR)	1.009 ppm	332 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	38 cps
K 766.490 (ETA AQ-Radial-iFR)	0.472 ppm	38 cps
Na 818.326 (ETA AQ-Radial-iFR)	1.256 ppm	15 cps

Label: IC-8122457 #: 4
Analysis Type: STD Analysis started at: 10/29/2024 9:34:47 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	24.634 ppm	707 cps
As 189.042 (ETA AQ-Axial-iFR)	0.993 ppm	49 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.987 ppm	112 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.978 ppm	35 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.985 ppm	54 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.979 ppm	176 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.009 ppm	539 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.975 ppm	38 cps
B 208.959 (ETA AQ-Axial-iFR)	0.999 ppm	223 cps
P 213.618 (ETA AQ-Axial-iFR)	24.828 ppm	1,706 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.989 ppm	50 cps
Y 224.306 (ETA AQ-Axial-iFR)	96.292 %	341 cps
Y 224.306 (ETA AQ-Radial-iFR)	98.789 %	93 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.996 ppm	430 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.980 ppm	754 cps
In 230.606 (ETA AQ-Axial-iFR)	100.828 %	342 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.982 ppm	321 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.987 ppm	1,675 cps
Fe 259.940 (ETA AQ-Axial-iFR)	50.604 ppm	48,809 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Cr 267.716 (ETA AQ-Axial-iFR)	0.985 ppm	932 cps
Fe 271.441 (ETA AQ-Radial-iFR)	49.760 ppm	710 cps
Mg 279.079 (ETA AQ-Radial-iFR)	49.596 ppm	1,716 cps
Si 288.158 (ETA AQ-Radial-iFR)	10.189 ppm	661 cps
V 292.402 (ETA AQ-Axial-iFR)	0.986 ppm	1,315 cps
Al 308.215 (ETA AQ-Radial-iFR)	49.371 ppm	1,848 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.995 ppm	8,492 cps
Ca 317.933 (ETA AQ-Radial-iFR)	50.078 ppm	9,256 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.975 ppm	1,344 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.977 ppm	2,164 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.982 ppm	2,141 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.988 ppm	5,976 cps
Y 360.073 (ETA AQ-Axial-iFR)	95.586 %	4,584 cps
Y 360.073 (ETA AQ-Radial-iFR)	99.629 %	955 cps
Y 377.433 (ETA AQ-Axial-iFR)	95.321 %	6,398 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.196 %	1,322 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.989 ppm	19,411 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.000 ppm	9,305 cps
Na 589.592 (ETA AQ-Radial-iFR)	49.776 ppm	16,539 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.986 ppm	1,326 cps
K 766.490 (ETA AQ-Radial-iFR)	49.619 ppm	3,644 cps
Na 818.326 (ETA AQ-Radial-iFR)	49.739 ppm	445 cps

Label: IC-8122450 #: 5
Analysis Type: STD Analysis started at: 10/29/2024 9:36:40 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	50.183 ppm	1,398 cps
As 189.042 (ETA AQ-Axial-iFR)	2.003 ppm	97 cps
Sn 189.989 (ETA AQ-Axial-iFR)	2.006 ppm	226 cps
Tl 190.856 (ETA AQ-Axial-iFR)	2.011 ppm	71 cps
Se 196.090 (ETA AQ-Axial-iFR)	2.008 ppm	105 cps
Mo 202.030 (ETA AQ-Axial-iFR)	2.010 ppm	351 cps
Zn 206.200 (ETA AQ-Axial-iFR)	1.995 ppm	1,038 cps
Sb 206.833 (ETA AQ-Axial-iFR)	2.012 ppm	76 cps
B 208.959 (ETA AQ-Axial-iFR)	2.001 ppm	433 cps
P 213.618 (ETA AQ-Axial-iFR)	50.086 ppm	3,354 cps
Pb 220.353 (ETA AQ-Axial-iFR)	2.006 ppm	100 cps
Y 224.306 (ETA AQ-Axial-iFR)	93.753 %	332 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.862 %	93 cps
Co 228.616 (ETA AQ-Axial-iFR)	2.002 ppm	856 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2.010 ppm	1,502 cps
In 230.606 (ETA AQ-Axial-iFR)	99.771 %	338 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2.009 ppm	644 cps
Mn 257.610 (ETA AQ-Radial-iFR)	2.007 ppm	3,349 cps
Fe 259.940 (ETA AQ-Axial-iFR)	99.698 ppm	93,643 cps
Cr 267.716 (ETA AQ-Axial-iFR)	2.007 ppm	1,852 cps
Fe 271.441 (ETA AQ-Radial-iFR)	100.120 ppm	1,406 cps
Mg 279.079 (ETA AQ-Radial-iFR)	100.202 ppm	3,409 cps
Si 288.158 (ETA AQ-Radial-iFR)	19.905 ppm	1,269 cps
V 292.402 (ETA AQ-Axial-iFR)	2.007 ppm	2,611 cps
Al 308.215 (ETA AQ-Radial-iFR)	100.315 ppm	3,692 cps
Be 313.042 (ETA AQ-Radial-iFR)	2.003 ppm	16,810 cps
Ca 317.933 (ETA AQ-Radial-iFR)	99.961 ppm	18,162 cps
Cu 327.396 (ETA AQ-Axial-iFR)	2.013 ppm	2,711 cps

Basic Sample Report
10/30/2024 8:33:32 AM

QTEGRA

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ag 328.068 (ETA AQ-Axial-iFR)	2.012 ppm	4,351 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2.009 ppm	4,280 cps
Ti 334.941 (ETA AQ-Axial-iFR)	2.006 ppm	11,825 cps
Y 360.073 (ETA AQ-Axial-iFR)	93.225 %	4,471 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.718 %	936 cps
Y 377.433 (ETA AQ-Axial-iFR)	93.152 %	6,252 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.533 %	1,300 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.005 ppm	38,691 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.000 ppm	18,445 cps
Na 589.592 (ETA AQ-Radial-iFR)	100.112 ppm	32,716 cps
Li 670.784 (ETA AQ-Radial-iFR)	2.007 ppm	2,656 cps
K 766.490 (ETA AQ-Radial-iFR)	100.191 ppm	7,232 cps
Na 818.326 (ETA AQ-Radial-iFR)	100.128 ppm	877 cps

Label: ICV-8122463 #: 6
Analysis Type: QC Analysis started at: 10/29/2024 9:47:18 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	18.025 ppm	96.134 %
As 189.042 (ETA AQ-Axial-iFR)	0.767 ppm	102.201 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.727 ppm	96.972 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.760 ppm	101.302 %
Se 196.090 (ETA AQ-Axial-iFR)	0.762 ppm	101.558 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.745 ppm	99.370 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.717 ppm	95.592 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.725 ppm	96.613 %
B 208.959 (ETA AQ-Axial-iFR)	0.694 ppm	92.599 %
P 213.618 (ETA AQ-Axial-iFR)	18.054 ppm	96.288 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.760 ppm	101.282 %
Y 224.306 (ETA AQ-Axial-iFR)	100.325 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.152 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.768 ppm	102.352 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.747 ppm	99.571 %
In 230.606 (ETA AQ-Axial-iFR)	102.346 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.724 ppm	96.535 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.726 ppm	96.756 %
Fe 259.940 (ETA AQ-Axial-iFR)	36.960 ppm	98.561 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.715 ppm	95.356 %
Fe 271.441 (ETA AQ-Radial-iFR)	36.861 ppm	98.297 %
Mg 279.079 (ETA AQ-Radial-iFR)	35.646 ppm	95.056 %
Si 288.158 (ETA AQ-Radial-iFR)	7.540 ppm	100.534 %
V 292.402 (ETA AQ-Axial-iFR)	0.726 ppm	96.763 %
Al 308.215 (ETA AQ-Radial-iFR)	35.890 ppm	95.706 %
Be 313.042 (ETA AQ-Radial-iFR)	0.753 ppm	100.376 %
Ca 317.933 (ETA AQ-Radial-iFR)	36.980 ppm	98.614 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.724 ppm	96.508 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.673 ppm	89.733 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.731 ppm	97.450 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.748 ppm	99.705 %
Y 360.073 (ETA AQ-Axial-iFR)	100.842 %	
Y 360.073 (ETA AQ-Radial-iFR)	100.095 %	
Y 377.433 (ETA AQ-Axial-iFR)	100.421 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.434 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.745 ppm	99.339 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.750 ppm	99.943 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Na 589.592 (ETA AQ-Radial-iFR)	36.928 ppm	98.474 %
Li 670.784 (ETA AQ-Radial-iFR)	0.726 ppm	96.859 %
K 766.490 (ETA AQ-Radial-iFR)	36.610 ppm	97.626 %
Na 818.326 (ETA AQ-Radial-iFR)	36.579 ppm	97.545 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	539 cps
As 189.042 (ETA AQ-Axial-iFR)	39 cps
Sn 189.989 (ETA AQ-Axial-iFR)	84 cps
Tl 190.856 (ETA AQ-Axial-iFR)	27 cps
Se 196.090 (ETA AQ-Axial-iFR)	43 cps
Mo 202.030 (ETA AQ-Axial-iFR)	140 cps
Zn 206.200 (ETA AQ-Axial-iFR)	404 cps
Sb 206.833 (ETA AQ-Axial-iFR)	29 cps
B 208.959 (ETA AQ-Axial-iFR)	162 cps
P 213.618 (ETA AQ-Axial-iFR)	1,291 cps
Pb 220.353 (ETA AQ-Axial-iFR)	39 cps
Y 224.306 (ETA AQ-Axial-iFR)	355 cps
Y 224.306 (ETA AQ-Radial-iFR)	94 cps
Co 228.616 (ETA AQ-Axial-iFR)	335 cps
Cd 228.802 (ETA AQ-Axial-iFR)	599 cps
In 230.606 (ETA AQ-Axial-iFR)	347 cps
Ni 231.604 (ETA AQ-Axial-iFR)	250 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,234 cps
Fe 259.940 (ETA AQ-Axial-iFR)	37,153 cps
Cr 267.716 (ETA AQ-Axial-iFR)	714 cps
Fe 271.441 (ETA AQ-Radial-iFR)	527 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,236 cps
Si 288.158 (ETA AQ-Radial-iFR)	491 cps
V 292.402 (ETA AQ-Axial-iFR)	1,021 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,347 cps
Be 313.042 (ETA AQ-Radial-iFR)	6,444 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6,853 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,051 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1,572 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1,680 cps
Ti 334.941 (ETA AQ-Axial-iFR)	4,773 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,836 cps
Y 360.073 (ETA AQ-Radial-iFR)	959 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,740 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,325 cps
Sr 407.771 (ETA AQ-Radial-iFR)	14,654 cps
Ba 455.403 (ETA AQ-Radial-iFR)	7,003 cps
Na 589.592 (ETA AQ-Radial-iFR)	12,298 cps
Li 670.784 (ETA AQ-Radial-iFR)	979 cps
K 766.490 (ETA AQ-Radial-iFR)	2,696 cps
Na 818.326 (ETA AQ-Radial-iFR)	329 cps

Label: ICV-8122463 #: 7
Analysis Type: QC Analysis started at: 10/29/2024 9:57:09 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	18.029 ppm	96.155 %
As 189.042 (ETA AQ-Axial-iFR)	0.765 ppm	102.036 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.728 ppm	97.103 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Tl 190.856 (ETA AQ-Axial-iFR)	0.766 ppm	102.131 %
Se 196.090 (ETA AQ-Axial-iFR)	0.760 ppm	101.389 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.741 ppm	98.812 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.722 ppm	96.216 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.723 ppm	96.461 %
B 208.959 (ETA AQ-Axial-iFR)	0.694 ppm	92.480 %
P 213.618 (ETA AQ-Axial-iFR)	18.088 ppm	96.467 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.759 ppm	101.225 %
Y 224.306 (ETA AQ-Axial-iFR)	100.826 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.162 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.770 ppm	102.622 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.740 ppm	98.728 %
In 230.606 (ETA AQ-Axial-iFR)	102.194 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.725 ppm	96.600 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.723 ppm	96.444 %
Fe 259.940 (ETA AQ-Axial-iFR)	36.796 ppm	98.123 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.719 ppm	95.872 %
Fe 271.441 (ETA AQ-Radial-iFR)	36.899 ppm	98.398 %
Mg 279.079 (ETA AQ-Radial-iFR)	35.670 ppm	95.119 %
Si 288.158 (ETA AQ-Radial-iFR)	7.483 ppm	99.778 %
V 292.402 (ETA AQ-Axial-iFR)	0.728 ppm	97.079 %
Al 308.215 (ETA AQ-Radial-iFR)	35.832 ppm	95.552 %
Be 313.042 (ETA AQ-Radial-iFR)	0.752 ppm	100.225 %
Ca 317.933 (ETA AQ-Radial-iFR)	36.963 ppm	98.568 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.723 ppm	96.463 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.678 ppm	90.340 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.734 ppm	97.879 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.749 ppm	99.875 %
Y 360.073 (ETA AQ-Axial-iFR)	100.155 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.510 %	
Y 377.433 (ETA AQ-Axial-iFR)	100.282 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.440 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.742 ppm	98.937 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.746 ppm	99.509 %
Na 589.592 (ETA AQ-Radial-iFR)	36.875 ppm	98.332 %
Li 670.784 (ETA AQ-Radial-iFR)	0.726 ppm	96.754 %
K 766.490 (ETA AQ-Radial-iFR)	36.426 ppm	97.137 %
Na 818.326 (ETA AQ-Radial-iFR)	36.450 ppm	97.201 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	542 cps
As 189.042 (ETA AQ-Axial-iFR)	39 cps
Sn 189.989 (ETA AQ-Axial-iFR)	84 cps
Tl 190.856 (ETA AQ-Axial-iFR)	27 cps
Se 196.090 (ETA AQ-Axial-iFR)	44 cps
Mo 202.030 (ETA AQ-Axial-iFR)	140 cps
Zn 206.200 (ETA AQ-Axial-iFR)	404 cps
Sb 206.833 (ETA AQ-Axial-iFR)	29 cps
B 208.959 (ETA AQ-Axial-iFR)	163 cps
P 213.618 (ETA AQ-Axial-iFR)	1,300 cps
Pb 220.353 (ETA AQ-Axial-iFR)	39 cps
Y 224.306 (ETA AQ-Axial-iFR)	357 cps
Y 224.306 (ETA AQ-Radial-iFR)	94 cps
Co 228.616 (ETA AQ-Axial-iFR)	336 cps
Cd 228.802 (ETA AQ-Axial-iFR)	597 cps
In 230.606 (ETA AQ-Axial-iFR)	347 cps
Ni 231.604 (ETA AQ-Axial-iFR)	250 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,230 cps

Analyte (Measure Mode)	Raw Intensity average
Fe 259.940 (ETA AQ-Axial-iFR)	37,172 cps
Cr 267.716 (ETA AQ-Axial-iFR)	713 cps
Fe 271.441 (ETA AQ-Radial-iFR)	528 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,237 cps
Si 288.158 (ETA AQ-Radial-iFR)	487 cps
V 292.402 (ETA AQ-Axial-iFR)	1,017 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,345 cps
Be 313.042 (ETA AQ-Radial-iFR)	6,434 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6,850 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,049 cps
Ag 328.068 (ETA AQ-Axial-iFR)	1,572 cps
Ti 334.904 (ETA AQ-Axial-iFR)	1,676 cps
Ti 334.941 (ETA AQ-Axial-iFR)	4,749 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,803 cps
Y 360.073 (ETA AQ-Radial-iFR)	953 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,731 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,325 cps
Sr 407.771 (ETA AQ-Radial-iFR)	14,595 cps
Ba 455.403 (ETA AQ-Radial-iFR)	6,974 cps
Na 589.592 (ETA AQ-Radial-iFR)	12,281 cps
Li 670.784 (ETA AQ-Radial-iFR)	978 cps
K 766.490 (ETA AQ-Radial-iFR)	2,682 cps
Na 818.326 (ETA AQ-Radial-iFR)	328 cps

Label: ICB-8122474 #: 8
Analysis Type: QC Analysis started at: 10/29/2024 10:00:51 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.193 %
As 189.042 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.096 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.239 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	0.232 %
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	0.031 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	-0.032 %
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.087 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.065 %
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	0.200 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.226 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	0.379 %
Y 224.306 (ETA AQ-Axial-iFR)	101.189 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.677 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	0.002 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	0.022 %
In 230.606 (ETA AQ-Axial-iFR)	100.095 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-0.029 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.003 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.001 ppm	0.148 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0.003 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.015 ppm	1.467 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.003 ppm	-0.288 %
Si 288.158 (ETA AQ-Radial-iFR)	0.007 ppm	0.682 %
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0.100 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.030 ppm	-3.019 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.008 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.003 ppm	-0.321 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.091 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0.072 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.063 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	-0.002 %
Y 360.073 (ETA AQ-Axial-iFR)	99.815 %	
Y 360.073 (ETA AQ-Radial-iFR)	100.354 %	
Y 377.433 (ETA AQ-Axial-iFR)	99.922 %	
Y 377.433 (ETA AQ-Radial-iFR)	100.097 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.012 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.028 %
Na 589.592 (ETA AQ-Radial-iFR)	0.012 ppm	1.200 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.163 %
K 766.490 (ETA AQ-Radial-iFR)	0.006 ppm	0.569 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.102 ppm	-10.203 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	358 cps
Y 224.306 (ETA AQ-Radial-iFR)	95 cps
Co 228.616 (ETA AQ-Axial-iFR)	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	340 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	8 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	2 cps
V 292.402 (ETA AQ-Axial-iFR)	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	-1 cps
Be 313.042 (ETA AQ-Radial-iFR)	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,787 cps
Y 360.073 (ETA AQ-Radial-iFR)	962 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,707 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,334 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-5 cps
Ba 455.403 (ETA AQ-Radial-iFR)	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-3 cps
Li 670.784 (ETA AQ-Radial-iFR)	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	3 cps
Na 818.326 (ETA AQ-Radial-iFR)	2 cps

Basic Sample Report
10/30/2024 8:33:32 AM

QTEGRA

Label: ICVL-8122384 #: 9
Analysis Type: QC Analysis started at: 10/29/2024 10:02:48 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.195 ppm	97.433 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	100.109 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.008 ppm	83.848 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.017 ppm	85.695 %
Se 196.090 (ETA AQ-Axial-iFR)	0.021 ppm	85.402 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.010 ppm	97.550 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	95.330 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.017 ppm	82.716 %
B 208.959 (ETA AQ-Axial-iFR)	0.022 ppm	108.417 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	88.608 %
Y 224.306 (ETA AQ-Axial-iFR)	102.163 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.919 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	101.144 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	106.849 %
In 230.606 (ETA AQ-Axial-iFR)	101.030 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	98.562 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	98.730 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.045 ppm	89.286 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	109.827 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.099 ppm	197.669 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.190 ppm	94.782 %
Si 288.158 (ETA AQ-Radial-iFR)	0.490 ppm	98.050 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	108.559 %
Al 308.215 (ETA AQ-Radial-iFR)	0.178 ppm	89.166 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	103.400 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.482 ppm	96.362 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	86.127 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	103.243 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	108.444 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	97.407 %
Y 360.073 (ETA AQ-Axial-iFR)	100.352 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.387 %	
Y 377.433 (ETA AQ-Axial-iFR)	100.440 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.539 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	94.075 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	86.599 %
Na 589.592 (ETA AQ-Radial-iFR)	1.008 ppm	100.764 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	98.188 %
K 766.490 (ETA AQ-Radial-iFR)	0.463 ppm	92.686 %
Na 818.326 (ETA AQ-Radial-iFR)	0.789 ppm	78.932 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	9 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps

Analyte (Measure Mode)	Raw Intensity average
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	361 cps
Y 224.306 (ETA AQ-Radial-iFR)	94 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	343 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	52 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	33 cps
V 292.402 (ETA AQ-Axial-iFR)	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	94 cps
Cu 327.396 (ETA AQ-Axial-iFR)	13 cps
Ag 328.068 (ETA AQ-Axial-iFR)	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	39 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,813 cps
Y 360.073 (ETA AQ-Radial-iFR)	952 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,742 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,327 cps
Sr 407.771 (ETA AQ-Radial-iFR)	90 cps
Ba 455.403 (ETA AQ-Radial-iFR)	17 cps
Na 589.592 (ETA AQ-Radial-iFR)	329 cps
Li 670.784 (ETA AQ-Radial-iFR)	38 cps
K 766.490 (ETA AQ-Radial-iFR)	37 cps
Na 818.326 (ETA AQ-Radial-iFR)	10 cps

Label: ICSA-8095256 #: 10
Analysis Type: QC Analysis started at: 10/29/2024 10:09:16 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.004 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.009 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.012 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	0.027 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	91.701 %	324 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.552 %	89 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	94.918 %	322 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Mn 257.610 (ETA AQ-Radial-iFR)	0.002 ppm	3 cps
Fe 259.940 (ETA AQ-Axial-iFR)	180.467 ppm	165,784 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.002 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	189.517 ppm	2,609 cps
Mg 279.079 (ETA AQ-Radial-iFR)	502.487 ppm	16,781 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.014 ppm	1 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	4 cps
Al 308.215 (ETA AQ-Radial-iFR)	494.240 ppm	17,847 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	470.746 ppm	83,921 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	-2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.005 ppm	-21 cps
Y 360.073 (ETA AQ-Axial-iFR)	92.620 %	4,442 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.583 %	916 cps
Y 377.433 (ETA AQ-Axial-iFR)	92.368 %	6,200 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.714 %	1,276 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	75 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	20 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.170 ppm	48 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.048 ppm	3 cps

Label: ICSAB-8096364 #: 11
Analysis Type: QC Analysis started at: 10/29/2024 10:11:16 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.011 ppm	4 cps
As 189.042 (ETA AQ-Axial-iFR)	0.501 ppm	23 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.487 ppm	52 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.534 ppm	18 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.498 ppm	26 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.492 ppm	85 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.459 ppm	239 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.502 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	5.061 ppm	1,055 cps
P 213.618 (ETA AQ-Axial-iFR)	4.941 ppm	321 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.505 ppm	24 cps
Y 224.306 (ETA AQ-Axial-iFR)	91.913 %	325 cps
Y 224.306 (ETA AQ-Radial-iFR)	93.460 %	88 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.495 ppm	201 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.509 ppm	374 cps
In 230.606 (ETA AQ-Axial-iFR)	95.689 %	325 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.482 ppm	154 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.464 ppm	757 cps
Fe 259.940 (ETA AQ-Axial-iFR)	180.313 ppm	166,030 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.474 ppm	438 cps
Fe 271.441 (ETA AQ-Radial-iFR)	189.115 ppm	2,594 cps
Mg 279.079 (ETA AQ-Radial-iFR)	500.507 ppm	16,651 cps
Si 288.158 (ETA AQ-Radial-iFR)	4.705 ppm	295 cps
V 292.402 (ETA AQ-Axial-iFR)	0.485 ppm	635 cps
Al 308.215 (ETA AQ-Radial-iFR)	493.526 ppm	17,754 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.251 ppm	2,065 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ca 317.933 (ETA AQ-Radial-iFR)	469.022 ppm	83,301 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.530 ppm	714 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.502 ppm	1,085 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.503 ppm	1,068 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.498 ppm	2,942 cps
Y 360.073 (ETA AQ-Axial-iFR)	93.298 %	4,475 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.155 %	912 cps
Y 377.433 (ETA AQ-Axial-iFR)	93.129 %	6,251 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.356 %	1,271 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.497 ppm	9,455 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.514 ppm	4,529 cps
Na 589.592 (ETA AQ-Radial-iFR)	5.245 ppm	1,669 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	5.132 ppm	364 cps
Na 818.326 (ETA AQ-Radial-iFR)	4.939 ppm	45 cps

Label: ICEX1 #: 12
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 10:13:09 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	-0.016 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	>4.950	260 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.006 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.006 ppm	4 cps
P 213.618 (ETA AQ-Axial-iFR)	0.148 ppm	**6 cps**
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.142 %	358 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.205 %	96 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	21 cps
In 230.606 (ETA AQ-Axial-iFR)	100.314 %	340 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	8 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.031 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.009 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	-0.006 ppm	1 cps
V 292.402 (ETA AQ-Axial-iFR)	>4.904	6,893 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.038 ppm	2 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	>23.279	33,876 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-63 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.527 %	4,821 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.720 %	965 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.680 %	6,758 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.621 %	1,341 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-5 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.008 ppm	-4 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.036 ppm	0 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.020 ppm	3 cps

Label: ICEX2 #: 13
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 10:15:02 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	-0.027 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.005 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	>20.043	734 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.005 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.452 %	362 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.423 %	96 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	16 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	102.355 %	347 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.006 ppm	1 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.008 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.106 ppm	-3 cps
Si 288.158 (ETA AQ-Radial-iFR)	>47.318	3,156 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	11 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.003 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.006 ppm	3 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.004 ppm	7 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	19.109 ppm	44,174 cps
Ti 334.941 (ETA AQ-Axial-iFR)	19.351 ppm	123,536 cps
Y 360.073 (ETA AQ-Axial-iFR)	101.025 %	4,845 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.352 %	962 cps
Y 377.433 (ETA AQ-Axial-iFR)	101.278 %	6,798 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.104 %	1,334 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-6 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.004 ppm	-6 cps
Li 670.784 (ETA AQ-Radial-iFR)	>9.894	13,446 cps
K 766.490 (ETA AQ-Radial-iFR)	0.001 ppm	2 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.096 ppm	2 cps

Label: ICEX3 #: 14

Analysis Type: UNKNOWN Analysis started at: 10/29/2024 10:16:56 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	>96.026	2,918 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.012 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.006 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	-0.002 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.012 ppm	-5 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	102.371 %	362 cps
Y 224.306 (ETA AQ-Radial-iFR)	101.269 %	96 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	101.954 %	346 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	>49.691	85,637 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.005 ppm	2 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	7 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.001 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.008 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.025 ppm	3 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.003 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.000 ppm	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.005 ppm	9 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	30 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.821 %	4,835 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.645 %	964 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.946 %	6,776 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.695 %	1,342 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-6 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.011 ppm	-3 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.009 ppm	2 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.025 ppm	3 cps

Label: ICEX4 #: 15
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 10:18:49 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.072 ppm	5 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.015 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.004 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.011 ppm	1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.005 ppm	-2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.018 ppm	3 cps
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	0.003 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.008 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	101.456 %	359 cps
Y 224.306 (ETA AQ-Radial-iFR)	100.525 %	95 cps
Co 228.616 (ETA AQ-Axial-iFR)	>21.433	9,292 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	101.149 %	343 cps
Ni 231.604 (ETA AQ-Axial-iFR)	>9.995	3,457 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.001 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.003 ppm	3 cps
Cr 267.716 (ETA AQ-Axial-iFR)	>9.743	9,678 cps
Fe 271.441 (ETA AQ-Radial-iFR)	>0.198	23 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.002 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.008 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.005 ppm	8 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	25 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.425 %	4,816 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.277 %	961 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.525 %	6,747 cps
Y 377.433 (ETA AQ-Radial-iFR)	100.222 %	1,336 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-6 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	1 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.008 ppm	-4 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.016 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.051 ppm	3 cps

Label: ICEX5 #: 16
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 10:20:42 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	-0.014 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.004 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.008 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	>4.802	902 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.000 ppm	17 cps
P 213.618 (ETA AQ-Axial-iFR)	0.005 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	-0.003 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	100.907 %	357 cps
Y 224.306 (ETA AQ-Radial-iFR)	99.288 %	94 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	100.142 %	340 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	-0.007 ppm	0 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	>0.055	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.029 ppm	-4 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.221 ppm	16 cps
V 292.402 (ETA AQ-Axial-iFR)	-0.002 ppm	-25 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.090 ppm	4 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.003 ppm	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.002 ppm	-2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	15 cps
Y 360.073 (ETA AQ-Axial-iFR)	100.326 %	4,812 cps
Y 360.073 (ETA AQ-Radial-iFR)	100.018 %	958 cps
Y 377.433 (ETA AQ-Axial-iFR)	100.324 %	6,734 cps
Y 377.433 (ETA AQ-Radial-iFR)	99.643 %	1,328 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-5 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.019 ppm	-1 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.015 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.156 ppm	2 cps

Label: CCV-8122457 #: 17
Analysis Type: QC Analysis started at: 10/29/2024 10:22:36 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	24.797 ppm	99.189 %
As 189.042 (ETA AQ-Axial-iFR)	1.005 ppm	100.533 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.984 ppm	98.406 %
Tl 190.856 (ETA AQ-Axial-iFR)	1.008 ppm	100.823 %
Se 196.090 (ETA AQ-Axial-iFR)	1.000 ppm	99.989 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.975 ppm	97.451 %
Zn 206.200 (ETA AQ-Axial-iFR)	1.023 ppm	102.313 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.958 ppm	95.812 %
B 208.959 (ETA AQ-Axial-iFR)	1.001 ppm	100.064 %
P 213.618 (ETA AQ-Axial-iFR)	24.710 ppm	98.842 %
Pb 220.353 (ETA AQ-Axial-iFR)	1.016 ppm	101.611 %
Y 224.306 (ETA AQ-Axial-iFR)	100.847 %	
Y 224.306 (ETA AQ-Radial-iFR)	98.075 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.032 ppm	103.173 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.989 ppm	98.917 %
In 230.606 (ETA AQ-Axial-iFR)	101.984 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.949 ppm	94.936 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.970 ppm	96.976 %
Fe 259.940 (ETA AQ-Axial-iFR)	48.999 ppm	97.998 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.957 ppm	95.653 %
Fe 271.441 (ETA AQ-Radial-iFR)	49.390 ppm	98.780 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.834 ppm	97.668 %
Si 288.158 (ETA AQ-Radial-iFR)	9.717 ppm	97.174 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
V 292.402 (ETA AQ-Axial-iFR)	0.969 ppm	96.853 %
Al 308.215 (ETA AQ-Radial-iFR)	48.718 ppm	97.437 %
Be 313.042 (ETA AQ-Radial-iFR)	0.996 ppm	99.633 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.597 ppm	99.194 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.982 ppm	98.201 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.956 ppm	95.648 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.966 ppm	96.636 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.986 ppm	98.644 %
Y 360.073 (ETA AQ-Axial-iFR)	100.419 %	
Y 360.073 (ETA AQ-Radial-iFR)	98.845 %	
Y 377.433 (ETA AQ-Axial-iFR)	100.816 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.046 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.980 ppm	97.968 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.998 ppm	99.754 %
Na 589.592 (ETA AQ-Radial-iFR)	49.585 ppm	99.170 %
Li 670.784 (ETA AQ-Radial-iFR)	0.978 ppm	97.773 %
K 766.490 (ETA AQ-Radial-iFR)	49.570 ppm	99.139 %
Na 818.326 (ETA AQ-Radial-iFR)	48.991 ppm	97.982 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	744 cps
As 189.042 (ETA AQ-Axial-iFR)	52 cps
Sn 189.989 (ETA AQ-Axial-iFR)	113 cps
Tl 190.856 (ETA AQ-Axial-iFR)	36 cps
Se 196.090 (ETA AQ-Axial-iFR)	57 cps
Mo 202.030 (ETA AQ-Axial-iFR)	184 cps
Zn 206.200 (ETA AQ-Axial-iFR)	573 cps
Sb 206.833 (ETA AQ-Axial-iFR)	39 cps
B 208.959 (ETA AQ-Axial-iFR)	234 cps
P 213.618 (ETA AQ-Axial-iFR)	1,778 cps
Pb 220.353 (ETA AQ-Axial-iFR)	52 cps
Y 224.306 (ETA AQ-Axial-iFR)	357 cps
Y 224.306 (ETA AQ-Radial-iFR)	93 cps
Co 228.616 (ETA AQ-Axial-iFR)	450 cps
Cd 228.802 (ETA AQ-Axial-iFR)	797 cps
In 230.606 (ETA AQ-Axial-iFR)	346 cps
Ni 231.604 (ETA AQ-Axial-iFR)	329 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,643 cps
Fe 259.940 (ETA AQ-Axial-iFR)	49,507 cps
Cr 267.716 (ETA AQ-Axial-iFR)	951 cps
Fe 271.441 (ETA AQ-Radial-iFR)	704 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,687 cps
Si 288.158 (ETA AQ-Radial-iFR)	630 cps
V 292.402 (ETA AQ-Axial-iFR)	1,357 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,821 cps
Be 313.042 (ETA AQ-Radial-iFR)	8,494 cps
Ca 317.933 (ETA AQ-Radial-iFR)	9,153 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,432 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,227 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,214 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6,268 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,816 cps
Y 360.073 (ETA AQ-Radial-iFR)	947 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,767 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,320 cps
Sr 407.771 (ETA AQ-Radial-iFR)	19,194 cps
Ba 455.403 (ETA AQ-Radial-iFR)	9,218 cps
Na 589.592 (ETA AQ-Radial-iFR)	16,452 cps

Analyte (Measure Mode)	Raw Intensity average
Li 670.784 (ETA AQ-Radial-iFR)	1,313 cps
K 766.490 (ETA AQ-Radial-iFR)	3,635 cps
Na 818.326 (ETA AQ-Radial-iFR)	437 cps

Label: CCB-8122474 #: 18
Analysis Type: QC Analysis started at: 10/29/2024 10:24:30 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.005 ppm	-0.450 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	0.192 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.004 ppm	-0.391 %
Tl 190.856 (ETA AQ-Axial-iFR)	-0.007 ppm	-0.671 %
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	0.030 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	0.091 %
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.092 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.003 ppm	0.271 %
B 208.959 (ETA AQ-Axial-iFR)	0.005 ppm	0.488 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.168 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0.204 %
Y 224.306 (ETA AQ-Axial-iFR)	101.174 %	
Y 224.306 (ETA AQ-Radial-iFR)	100.390 %	
Co 228.616 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.080 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	0.015 %
In 230.606 (ETA AQ-Axial-iFR)	99.862 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-0.018 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.001 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.229 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	-0.002 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.032 ppm	3.189 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.008 ppm	0.812 %
Si 288.158 (ETA AQ-Radial-iFR)	0.008 ppm	0.814 %
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0.059 %
Al 308.215 (ETA AQ-Radial-iFR)	-0.005 ppm	-0.477 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.011 %
Ca 317.933 (ETA AQ-Radial-iFR)	-0.004 ppm	-0.415 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-0.033 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0.073 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.081 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.035 %
Y 360.073 (ETA AQ-Axial-iFR)	99.452 %	
Y 360.073 (ETA AQ-Radial-iFR)	100.072 %	
Y 377.433 (ETA AQ-Axial-iFR)	99.655 %	
Y 377.433 (ETA AQ-Radial-iFR)	100.323 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.014 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.020 %
Na 589.592 (ETA AQ-Radial-iFR)	0.011 ppm	1.071 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.136 %
K 766.490 (ETA AQ-Radial-iFR)	-0.041 ppm	-4.051 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.075 ppm	-7.477 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	3 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps

Analyte (Measure Mode)	Raw Intensity average
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	358 cps
Y 224.306 (ETA AQ-Radial-iFR)	95 cps
Co 228.616 (ETA AQ-Axial-iFR)	-3 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	339 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	2 cps
V 292.402 (ETA AQ-Axial-iFR)	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	10 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,770 cps
Y 360.073 (ETA AQ-Radial-iFR)	959 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,689 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,337 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-6 cps
Ba 455.403 (ETA AQ-Radial-iFR)	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-3 cps
Li 670.784 (ETA AQ-Radial-iFR)	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	-1 cps
Na 818.326 (ETA AQ-Radial-iFR)	3 cps

Label: CCVL-8122384 #: 19
Analysis Type: QC Analysis started at: 10/29/2024 10:26:24 AM

Amount: Final Quantity: Standard DF: 1

Label: CCVL-8122384 #: 20
Analysis Type: QC Analysis started at: 10/29/2024 10:31:07 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.188 ppm	94.125 %
As 189.042 (ETA AQ-Axial-iFR)	0.018 ppm	118.269 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.008 ppm	76.957 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.016 ppm	77.535 %
Se 196.090 (ETA AQ-Axial-iFR)	0.022 ppm	86.693 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.011 ppm	107.447 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	95.418 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.021 ppm	102.589 %
B 208.959 (ETA AQ-Axial-iFR)	0.023 ppm	114.510 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.013 ppm	127.957 %
Y 224.306 (ETA AQ-Axial-iFR)	100.978 %	
Y 224.306 (ETA AQ-Radial-iFR)	99.338 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.005 ppm	113.029 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	84.175 %
In 230.606 (ETA AQ-Axial-iFR)	100.957 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.009 ppm	93.119 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	96.745 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.045 ppm	89.311 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	110.140 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.046 ppm	91.864 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.188 ppm	93.888 %
Si 288.158 (ETA AQ-Radial-iFR)	0.484 ppm	96.833 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	109.049 %
Al 308.215 (ETA AQ-Radial-iFR)	0.192 ppm	96.015 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	104.238 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.481 ppm	96.180 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.008 ppm	82.846 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	104.670 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	106.173 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	96.955 %
Y 360.073 (ETA AQ-Axial-iFR)	100.252 %	
Y 360.073 (ETA AQ-Radial-iFR)	99.562 %	
Y 377.433 (ETA AQ-Axial-iFR)	100.395 %	
Y 377.433 (ETA AQ-Radial-iFR)	99.249 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	92.384 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	83.204 %
Na 589.592 (ETA AQ-Radial-iFR)	0.995 ppm	99.528 %
Li 670.784 (ETA AQ-Radial-iFR)	0.028 ppm	94.986 %
K 766.490 (ETA AQ-Radial-iFR)	0.469 ppm	93.767 %
Na 818.326 (ETA AQ-Radial-iFR)	1.199 ppm	119.870 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	8 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	8 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	357 cps
Y 224.306 (ETA AQ-Radial-iFR)	94 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	342 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	52 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps

Analyte (Measure Mode)	Raw Intensity average
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	33 cps
V 292.402 (ETA AQ-Axial-iFR)	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	8 cps
Be 313.042 (ETA AQ-Radial-iFR)	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	93 cps
Cu 327.396 (ETA AQ-Axial-iFR)	13 cps
Ag 328.068 (ETA AQ-Axial-iFR)	12 cps
Ti 334.904 (ETA AQ-Axial-iFR)	5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	39 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,808 cps
Y 360.073 (ETA AQ-Radial-iFR)	954 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,739 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,323 cps
Sr 407.771 (ETA AQ-Radial-iFR)	88 cps
Ba 455.403 (ETA AQ-Radial-iFR)	16 cps
Na 589.592 (ETA AQ-Radial-iFR)	324 cps
Li 670.784 (ETA AQ-Radial-iFR)	36 cps
K 766.490 (ETA AQ-Radial-iFR)	37 cps
Na 818.326 (ETA AQ-Radial-iFR)	14 cps

Label: LRC-8136335 #: 21
Analysis Type: QC Analysis started at: 10/29/2024 10:33:01 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	78.389 ppm	104.519 %
As 189.042 (ETA AQ-Axial-iFR)	4.937 ppm	98.731 %
Sn 189.989 (ETA AQ-Axial-iFR)	4.062 ppm	101.547 %
Tl 190.856 (ETA AQ-Axial-iFR)	21.988 ppm	109.940 %
Se 196.090 (ETA AQ-Axial-iFR)	40.263 ppm	100.658 %
Mo 202.030 (ETA AQ-Axial-iFR)	1.148 ppm	11.479 %
Zn 206.200 (ETA AQ-Axial-iFR)	17.535 ppm	87.677 %
Sb 206.833 (ETA AQ-Axial-iFR)	4.895 ppm	97.902 %
B 208.959 (ETA AQ-Axial-iFR)	25.256 ppm	101.024 %
P 213.618 (ETA AQ-Axial-iFR)	0.015 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	42.651 ppm	106.627 %
Y 224.306 (ETA AQ-Axial-iFR)	91.967 %	
Y 224.306 (ETA AQ-Radial-iFR)	91.160 %	
Co 228.616 (ETA AQ-Axial-iFR)	20.497 ppm	102.484 %
Cd 228.802 (ETA AQ-Axial-iFR)	5.042 ppm	100.834 %
In 230.606 (ETA AQ-Axial-iFR)	92.754 %	
Ni 231.604 (ETA AQ-Axial-iFR)	9.140 ppm	91.399 %
Mn 257.610 (ETA AQ-Radial-iFR)	37.422 ppm	93.554 %
Fe 259.940 (ETA AQ-Axial-iFR)	432.424 ppm	72.071 %
Cr 267.716 (ETA AQ-Axial-iFR)	9.015 ppm	90.149 %
Fe 271.441 (ETA AQ-Radial-iFR)	567.286 ppm	94.548 %
Mg 279.079 (ETA AQ-Radial-iFR)	385.068 ppm	96.267 %
Si 288.158 (ETA AQ-Radial-iFR)	46.813 ppm	93.627 %
V 292.402 (ETA AQ-Axial-iFR)	4.736 ppm	94.715 %
Al 308.215 (ETA AQ-Radial-iFR)	592.758 ppm	98.793 %
Be 313.042 (ETA AQ-Radial-iFR)	23.553 ppm	94.210 %
Ca 317.933 (ETA AQ-Radial-iFR)	647.100 ppm	92.443 %
Cu 327.396 (ETA AQ-Axial-iFR)	8.646 ppm	108.072 %
Ag 328.068 (ETA AQ-Axial-iFR)	1.317 ppm	43.909 %
Ti 334.904 (ETA AQ-Axial-iFR)	19.079 ppm	95.394 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ti 334.941 (ETA AQ-Axial-iFR)	19.048 ppm	95.241 %
Y 360.073 (ETA AQ-Axial-iFR)	94.494 %	
Y 360.073 (ETA AQ-Radial-iFR)	94.136 %	
Y 377.433 (ETA AQ-Axial-iFR)	94.104 %	
Y 377.433 (ETA AQ-Radial-iFR)	94.188 %	
Sr 407.771 (ETA AQ-Radial-iFR)	9.413 ppm	94.125 %
Ba 455.403 (ETA AQ-Radial-iFR)	20.243 ppm	101.213 %
Na 589.592 (ETA AQ-Radial-iFR)	788.176 ppm	98.522 %
Li 670.784 (ETA AQ-Radial-iFR)	40.630 ppm	101.575 %
K 766.490 (ETA AQ-Radial-iFR)	516.393 ppm	103.279 %
Na 818.326 (ETA AQ-Radial-iFR)	802.999 ppm	100.375 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	2,141 cps
As 189.042 (ETA AQ-Axial-iFR)	236 cps
Sn 189.989 (ETA AQ-Axial-iFR)	426 cps
Tl 190.856 (ETA AQ-Axial-iFR)	731 cps
Se 196.090 (ETA AQ-Axial-iFR)	2,043 cps
Mo 202.030 (ETA AQ-Axial-iFR)	197 cps
Zn 206.200 (ETA AQ-Axial-iFR)	9,238 cps
Sb 206.833 (ETA AQ-Axial-iFR)	181 cps
B 208.959 (ETA AQ-Axial-iFR)	5,265 cps
P 213.618 (ETA AQ-Axial-iFR)	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1,976 cps
Y 224.306 (ETA AQ-Axial-iFR)	325 cps
Y 224.306 (ETA AQ-Radial-iFR)	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	8,165 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3,693 cps
In 230.606 (ETA AQ-Axial-iFR)	315 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2,959 cps
Mn 257.610 (ETA AQ-Radial-iFR)	60,324 cps
Fe 259.940 (ETA AQ-Axial-iFR)	398,382 cps
Cr 267.716 (ETA AQ-Axial-iFR)	8,431 cps
Fe 271.441 (ETA AQ-Radial-iFR)	7,701 cps
Mg 279.079 (ETA AQ-Radial-iFR)	12,654 cps
Si 288.158 (ETA AQ-Radial-iFR)	2,937 cps
V 292.402 (ETA AQ-Axial-iFR)	6,279 cps
Al 308.215 (ETA AQ-Radial-iFR)	21,070 cps
Be 313.042 (ETA AQ-Radial-iFR)	190,910 cps
Ca 317.933 (ETA AQ-Radial-iFR)	113,519 cps
Cu 327.396 (ETA AQ-Axial-iFR)	11,759 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,847 cps
Ti 334.904 (ETA AQ-Axial-iFR)	41,251 cps
Ti 334.941 (ETA AQ-Axial-iFR)	113,736 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,532 cps
Y 360.073 (ETA AQ-Radial-iFR)	902 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,316 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,255 cps
Sr 407.771 (ETA AQ-Radial-iFR)	175,423 cps
Ba 455.403 (ETA AQ-Radial-iFR)	173,878 cps
Na 589.592 (ETA AQ-Radial-iFR)	248,777 cps
Li 670.784 (ETA AQ-Radial-iFR)	51,964 cps
K 766.490 (ETA AQ-Radial-iFR)	35,985 cps
Na 818.326 (ETA AQ-Radial-iFR)	6,768 cps

Label: Rinse Blank #: 22
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:27:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	-0.006 ppm	2 cps
As 189.042 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.001 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.842 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.365 %	89 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.603 %	328 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.003 ppm	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.014 ppm	-1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.010 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.011 ppm	2 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.005 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	-0.001 ppm	4 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.786 %	4,642 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.302 %	932 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.187 %	6,456 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.385 %	1,285 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.019 ppm	-13 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.002 ppm	-5 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.013 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.057 ppm	3 cps

Label: CCV-8122457 #: 23
Analysis Type: QC Analysis started at: 10/29/2024 4:29:24 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	25.152 ppm	100.607 %
As 189.042 (ETA AQ-Axial-iFR)	0.970 ppm	96.971 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.967 ppm	96.739 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.965 ppm	96.463 %
Se 196.090 (ETA AQ-Axial-iFR)	0.982 ppm	98.154 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.968 ppm	96.825 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Zn 206.200 (ETA AQ-Axial-iFR)	0.990 ppm	99.031 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.961 ppm	96.101 %
B 208.959 (ETA AQ-Axial-iFR)	1.014 ppm	101.388 %
P 213.618 (ETA AQ-Axial-iFR)	24.952 ppm	99.807 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.996 ppm	99.583 %
Y 224.306 (ETA AQ-Axial-iFR)	95.732 %	
Y 224.306 (ETA AQ-Radial-iFR)	93.272 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.014 ppm	101.447 %
Cd 228.802 (ETA AQ-Axial-iFR)	1.017 ppm	101.746 %
In 230.606 (ETA AQ-Axial-iFR)	99.667 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.948 ppm	94.769 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.964 ppm	96.374 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.624 ppm	99.248 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.950 ppm	94.979 %
Fe 271.441 (ETA AQ-Radial-iFR)	49.644 ppm	99.288 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.281 ppm	98.563 %
Si 288.158 (ETA AQ-Radial-iFR)	9.942 ppm	99.417 %
V 292.402 (ETA AQ-Axial-iFR)	0.970 ppm	97.044 %
Al 308.215 (ETA AQ-Radial-iFR)	49.318 ppm	98.636 %
Be 313.042 (ETA AQ-Radial-iFR)	1.011 ppm	101.056 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.901 ppm	99.802 %
Cu 327.396 (ETA AQ-Axial-iFR)	1.004 ppm	100.411 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.958 ppm	95.779 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.962 ppm	96.163 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.985 ppm	98.538 %
Y 360.073 (ETA AQ-Axial-iFR)	97.892 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.326 %	
Y 377.433 (ETA AQ-Axial-iFR)	97.149 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.208 %	
Sr 407.771 (ETA AQ-Radial-iFR)	1.012 ppm	101.177 %
Ba 455.403 (ETA AQ-Radial-iFR)	1.046 ppm	104.602 %
Na 589.592 (ETA AQ-Radial-iFR)	51.182 ppm	102.363 %
Li 670.784 (ETA AQ-Radial-iFR)	1.012 ppm	101.199 %
K 766.490 (ETA AQ-Radial-iFR)	51.309 ppm	102.618 %
Na 818.326 (ETA AQ-Radial-iFR)	51.043 ppm	102.086 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	717 cps
As 189.042 (ETA AQ-Axial-iFR)	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	109 cps
Tl 190.856 (ETA AQ-Axial-iFR)	34 cps
Se 196.090 (ETA AQ-Axial-iFR)	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	173 cps
Zn 206.200 (ETA AQ-Axial-iFR)	541 cps
Sb 206.833 (ETA AQ-Axial-iFR)	37 cps
B 208.959 (ETA AQ-Axial-iFR)	225 cps
P 213.618 (ETA AQ-Axial-iFR)	1,704 cps
Pb 220.353 (ETA AQ-Axial-iFR)	50 cps
Y 224.306 (ETA AQ-Axial-iFR)	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	88 cps
Co 228.616 (ETA AQ-Axial-iFR)	432 cps
Cd 228.802 (ETA AQ-Axial-iFR)	777 cps
In 230.606 (ETA AQ-Axial-iFR)	338 cps
Ni 231.604 (ETA AQ-Axial-iFR)	316 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,570 cps
Fe 259.940 (ETA AQ-Axial-iFR)	47,596 cps
Cr 267.716 (ETA AQ-Axial-iFR)	920 cps
Fe 271.441 (ETA AQ-Radial-iFR)	680 cps

Analyte (Measure Mode)	Raw Intensity average
Mg 279.079 (ETA AQ-Radial-iFR)	1,637 cps
Si 288.158 (ETA AQ-Radial-iFR)	619 cps
V 292.402 (ETA AQ-Axial-iFR)	1,325 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,772 cps
Be 313.042 (ETA AQ-Radial-iFR)	8,282 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8,853 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,411 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,174 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,147 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6,103 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,695 cps
Y 360.073 (ETA AQ-Radial-iFR)	923 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,521 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,269 cps
Sr 407.771 (ETA AQ-Radial-iFR)	19,055 cps
Ba 455.403 (ETA AQ-Radial-iFR)	9,193 cps
Na 589.592 (ETA AQ-Radial-iFR)	16,324 cps
Li 670.784 (ETA AQ-Radial-iFR)	1,306 cps
K 766.490 (ETA AQ-Radial-iFR)	3,616 cps
Na 818.326 (ETA AQ-Radial-iFR)	438 cps

Label: CCB-8122474 #: 24
Analysis Type: QC Analysis started at: 10/29/2024 4:31:18 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	-0.005 ppm	-0.520 %
As 189.042 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.226 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.130 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	0.360 %
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	0.413 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.002 ppm	0.167 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	0.394 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.004 ppm	-0.439 %
B 208.959 (ETA AQ-Axial-iFR)	0.004 ppm	0.409 %
P 213.618 (ETA AQ-Axial-iFR)	0.006 ppm	0.568 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0.203 %
Y 224.306 (ETA AQ-Axial-iFR)	95.595 %	
Y 224.306 (ETA AQ-Radial-iFR)	95.424 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	0.045 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	0.036 %
In 230.606 (ETA AQ-Axial-iFR)	96.880 %	
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.079 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.006 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.003 ppm	0.330 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	0.091 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.080 ppm	8.018 %
Mg 279.079 (ETA AQ-Radial-iFR)	-0.005 ppm	-0.474 %
Si 288.158 (ETA AQ-Radial-iFR)	0.023 ppm	2.339 %
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0.121 %
Al 308.215 (ETA AQ-Radial-iFR)	0.020 ppm	2.037 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.008 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.008 ppm	0.793 %
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.070 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0.061 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.060 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.019 %
Y 360.073 (ETA AQ-Axial-iFR)	96.653 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.267 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.970 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.462 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.007 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.025 %
Na 589.592 (ETA AQ-Radial-iFR)	-0.018 ppm	-1.832 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.195 %
K 766.490 (ETA AQ-Radial-iFR)	-0.016 ppm	-1.598 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.234 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	2 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	329 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	9 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	3 cps
V 292.402 (ETA AQ-Axial-iFR)	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,635 cps
Y 360.073 (ETA AQ-Radial-iFR)	932 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,442 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,286 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-4 cps
Ba 455.403 (ETA AQ-Radial-iFR)	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-13 cps
Li 670.784 (ETA AQ-Radial-iFR)	-5 cps
K 766.490 (ETA AQ-Radial-iFR)	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	3 cps

Label: CCVL-8122384 #: 25
Analysis Type: QC Analysis started at: 10/29/2024 4:33:12 PM

Basic Sample Report
10/30/2024 8:33:32 AM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.191 ppm	95.743 %
As 189.042 (ETA AQ-Axial-iFR)	0.014 ppm	93.336 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.007 ppm	74.182 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.021 ppm	106.780 %
Se 196.090 (ETA AQ-Axial-iFR)	0.025 ppm	101.688 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.010 ppm	96.905 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	96.218 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.015 ppm	75.709 %
B 208.959 (ETA AQ-Axial-iFR)	0.022 ppm	110.326 %
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.013 ppm	128.146 %
Y 224.306 (ETA AQ-Axial-iFR)	96.022 %	
Y 224.306 (ETA AQ-Radial-iFR)	94.602 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.005 ppm	113.655 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	95.746 %
In 230.606 (ETA AQ-Axial-iFR)	97.543 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	95.041 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	89.437 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.052 ppm	103.329 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.005 ppm	115.895 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.076 ppm	152.201 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.199 ppm	99.386 %
Si 288.158 (ETA AQ-Radial-iFR)	0.488 ppm	97.697 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	101.522 %
Al 308.215 (ETA AQ-Radial-iFR)	0.186 ppm	92.953 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	103.964 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.489 ppm	97.735 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	90.148 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	101.466 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	105.582 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	97.216 %
Y 360.073 (ETA AQ-Axial-iFR)	97.368 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.300 %	
Y 377.433 (ETA AQ-Axial-iFR)	96.620 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.298 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	97.746 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	96.415 %
Na 589.592 (ETA AQ-Radial-iFR)	1.002 ppm	100.178 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	96.256 %
K 766.490 (ETA AQ-Radial-iFR)	0.480 ppm	95.922 %
Na 818.326 (ETA AQ-Radial-iFR)	0.959 ppm	95.889 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	8 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	7 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	340 cps

Analyte (Measure Mode)	Raw Intensity average
Y 224.306 (ETA AQ-Radial-iFR)	89 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	331 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	56 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	32 cps
V 292.402 (ETA AQ-Axial-iFR)	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	92 cps
Cu 327.396 (ETA AQ-Axial-iFR)	13 cps
Ag 328.068 (ETA AQ-Axial-iFR)	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	38 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,670 cps
Y 360.073 (ETA AQ-Radial-iFR)	932 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,485 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,283 cps
Sr 407.771 (ETA AQ-Radial-iFR)	90 cps
Ba 455.403 (ETA AQ-Radial-iFR)	17 cps
Na 589.592 (ETA AQ-Radial-iFR)	317 cps
Li 670.784 (ETA AQ-Radial-iFR)	36 cps
K 766.490 (ETA AQ-Radial-iFR)	37 cps
Na 818.326 (ETA AQ-Radial-iFR)	11 cps

Label: mb 480-730151/1-a #: 26
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:35:07 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.005 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.002 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.849 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	96.155 %	91 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.711 %	328 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.005 ppm	11 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.013 ppm	-1 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Mg 279.079 (ETA AQ-Radial-iFR)	0.022 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.008 ppm	2 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.011 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.016 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.086 %	4,656 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.748 %	937 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.518 %	6,478 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.873 %	1,291 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	-0.006 ppm	-9 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	-0.017 ppm	1 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.062 ppm	3 cps

Label: lcs 480-730151/2-a #: 27
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:37:00 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	5.015 ppm	145 cps
As 189.042 (ETA AQ-Axial-iFR)	0.987 ppm	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.974 ppm	109 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.971 ppm	34 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.984 ppm	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.496 ppm	89 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.509 ppm	277 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.488 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.506 ppm	113 cps
P 213.618 (ETA AQ-Axial-iFR)	9.966 ppm	677 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.502 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.578 %	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.113 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.520 ppm	219 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.512 ppm	394 cps
In 230.606 (ETA AQ-Axial-iFR)	98.990 %	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.494 ppm	164 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.492 ppm	812 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.280 ppm	5,062 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.483 ppm	466 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.106 ppm	71 cps
Mg 279.079 (ETA AQ-Radial-iFR)	24.714 ppm	831 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.016 ppm	67 cps
V 292.402 (ETA AQ-Axial-iFR)	0.492 ppm	667 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.030 ppm	183 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.521 ppm	4,323 cps
Ca 317.933 (ETA AQ-Radial-iFR)	25.223 ppm	4,531 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.490 ppm	686 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.047 ppm	97 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.504 ppm	1,114 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ti 334.941 (ETA AQ-Axial-iFR)	0.518 ppm	3,193 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.288 %	4,666 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.185 %	931 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.627 %	6,486 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.359 %	1,284 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.521 ppm	9,933 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.053 ppm	9,436 cps
Na 589.592 (ETA AQ-Radial-iFR)	25.854 ppm	8,342 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.509 ppm	664 cps
K 766.490 (ETA AQ-Radial-iFR)	25.657 ppm	1,831 cps
Na 818.326 (ETA AQ-Radial-iFR)	25.688 ppm	225 cps

Label: 480-224807-i-1-b #: 28
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:38:54 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	58.852 ppm	1,603 cps
As 189.042 (ETA AQ-Axial-iFR)	0.177 ppm	8 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.061 ppm	6 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.014 ppm	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.036 ppm	51 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.021 ppm	1 cps
B 208.959 (ETA AQ-Axial-iFR)	20.959 ppm	4,349 cps
P 213.618 (ETA AQ-Axial-iFR)	9.766 ppm	637 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.009 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	91.706 %	324 cps
Y 224.306 (ETA AQ-Radial-iFR)	86.677 %	82 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.040 ppm	14 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	91.503 %	310 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.210 ppm	68 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.555 ppm	839 cps
Fe 259.940 (ETA AQ-Axial-iFR)	12.586 ppm	11,568 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.347 ppm	329 cps
Fe 271.441 (ETA AQ-Radial-iFR)	12.520 ppm	159 cps
Mg 279.079 (ETA AQ-Radial-iFR)	124.830 ppm	3,852 cps
Si 288.158 (ETA AQ-Radial-iFR)	29.997 ppm	1,723 cps
V 292.402 (ETA AQ-Axial-iFR)	0.081 ppm	108 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.422 ppm	14 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	91.009 ppm	14,996 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.007 ppm	10 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.302 ppm	654 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.309 ppm	1,871 cps
Y 360.073 (ETA AQ-Axial-iFR)	95.595 %	4,585 cps
Y 360.073 (ETA AQ-Radial-iFR)	89.313 %	856 cps
Y 377.433 (ETA AQ-Axial-iFR)	94.930 %	6,372 cps
Y 377.433 (ETA AQ-Radial-iFR)	88.449 %	1,179 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.492 ppm	26,105 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.409 ppm	3,344 cps
Na 589.592 (ETA AQ-Radial-iFR)	2,577.685 ppm	764,049 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.466 ppm	557 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
K 766.490 (ETA AQ-Radial-iFR)	843.571 ppm	55,203 cps
Na 818.326 (ETA AQ-Radial-iFR)	2,853.093 ppm	22,576 cps

Label: 480-224706-a-1-a #: 29
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:40:47 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	3.863 ppm	113 cps
As 189.042 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.009 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.046 ppm	12 cps
P 213.618 (ETA AQ-Axial-iFR)	-0.001 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.005 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	96.200 %	340 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.270 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.605 %	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.136 ppm	226 cps
Fe 259.940 (ETA AQ-Axial-iFR)	2.328 ppm	2,250 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.003 ppm	3 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2.239 ppm	31 cps
Mg 279.079 (ETA AQ-Radial-iFR)	5.097 ppm	173 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.536 ppm	35 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.005 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	18.790 ppm	3,405 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	4 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-3 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.047 %	4,702 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.980 %	939 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.483 %	6,543 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.181 %	1,295 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.174 ppm	3,336 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.322 ppm	2,890 cps
Na 589.592 (ETA AQ-Radial-iFR)	25.672 ppm	8,354 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.001 ppm	-1 cps
K 766.490 (ETA AQ-Radial-iFR)	1.438 ppm	106 cps
Na 818.326 (ETA AQ-Radial-iFR)	25.054 ppm	221 cps

Label: 480-224844-f-1-a #: 30
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:42:41 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	82.372 ppm	2,196 cps
As 189.042 (ETA AQ-Axial-iFR)	0.365 ppm	16 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.056 ppm	5 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.008 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.112 ppm	20 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.221 ppm	17 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.049 ppm	2 cps
B 208.959 (ETA AQ-Axial-iFR)	52.534 ppm	10,670 cps
P 213.618 (ETA AQ-Axial-iFR)	10.360 ppm	661 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.022 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	89.791 %	318 cps
Y 224.306 (ETA AQ-Radial-iFR)	83.321 %	79 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.032 ppm	10 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	3 cps
In 230.606 (ETA AQ-Axial-iFR)	83.762 %	284 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.167 ppm	53 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1.927 ppm	2,807 cps
Fe 259.940 (ETA AQ-Axial-iFR)	11.306 ppm	10,175 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.310 ppm	288 cps
Fe 271.441 (ETA AQ-Radial-iFR)	11.337 ppm	139 cps
Mg 279.079 (ETA AQ-Radial-iFR)	279.538 ppm	8,304 cps
Si 288.158 (ETA AQ-Radial-iFR)	54.746 ppm	3,025 cps
V 292.402 (ETA AQ-Axial-iFR)	0.044 ppm	57 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.229 ppm	8 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	222.305 ppm	35,255 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.011 ppm	15 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.115 ppm	241 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.113 ppm	679 cps
Y 360.073 (ETA AQ-Axial-iFR)	93.640 %	4,491 cps
Y 360.073 (ETA AQ-Radial-iFR)	85.615 %	820 cps
Y 377.433 (ETA AQ-Axial-iFR)	93.059 %	6,246 cps
Y 377.433 (ETA AQ-Radial-iFR)	85.144 %	1,135 cps
Sr 407.771 (ETA AQ-Radial-iFR)	3.223 ppm	54,299 cps
Ba 455.403 (ETA AQ-Radial-iFR)	2.212 ppm	17,365 cps
Na 589.592 (ETA AQ-Radial-iFR)	5,017.430 ppm	1,431,612 cps
Li 670.784 (ETA AQ-Radial-iFR)	1.229 ppm	1,419 cps
K 766.490 (ETA AQ-Radial-iFR)	1,442.817 ppm	90,886 cps
Na 818.326 (ETA AQ-Radial-iFR)	6,827.918 ppm	52,002 cps

Label: 480-224842-k-1-a #: 31
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:44:34 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	4,350.695 ppm	100,859 cps
As 189.042 (ETA AQ-Axial-iFR)	0.126 ppm	5 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.038 ppm	3 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.008 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.054 ppm	9 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.413 ppm	24 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	9.571 ppm	1,694 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
P 213.618 (ETA AQ-Axial-iFR)	11.709 ppm	651 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.011 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	78.171 %	276 cps
Y 224.306 (ETA AQ-Radial-iFR)	72.948 %	69 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.045 ppm	12 cps
Cd 228.802 (ETA AQ-Axial-iFR)	-0.001 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	67.609 %	229 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.281 ppm	76 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.038 ppm	47 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4.071 ppm	3,193 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.164 ppm	130 cps
Fe 271.441 (ETA AQ-Radial-iFR)	4.254 ppm	45 cps
Mg 279.079 (ETA AQ-Radial-iFR)	109.273 ppm	2,810 cps
Si 288.158 (ETA AQ-Radial-iFR)	11.439 ppm	550 cps
V 292.402 (ETA AQ-Axial-iFR)	0.065 ppm	72 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.630 ppm	18 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	20.370 ppm	2,800 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	11 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.007 ppm	10 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.525 ppm	957 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.539 ppm	2,735 cps
Y 360.073 (ETA AQ-Axial-iFR)	80.076 %	3,840 cps
Y 360.073 (ETA AQ-Radial-iFR)	74.223 %	711 cps
Y 377.433 (ETA AQ-Axial-iFR)	79.406 %	5,330 cps
Y 377.433 (ETA AQ-Radial-iFR)	73.711 %	982 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.304 ppm	4,434 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.071 ppm	492 cps
Na 589.592 (ETA AQ-Radial-iFR)	9,194.410 ppm	2,271,206 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.122 ppm	120 cps
K 766.490 (ETA AQ-Radial-iFR)	1,390.161 ppm	75,812 cps
Na 818.326 (ETA AQ-Radial-iFR)	28,877.371 ppm	190,402 cps

Label: 480-224842-k-2-a #: 32
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:46:27 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	22.451 ppm	634 cps
As 189.042 (ETA AQ-Axial-iFR)	0.035 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.005 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.004 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.085 ppm	16 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.009 ppm	19 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	3.261 ppm	702 cps
P 213.618 (ETA AQ-Axial-iFR)	4.731 ppm	317 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	94.901 %	336 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.609 %	87 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.031 ppm	11 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.457 %	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.082 ppm	27 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.336 ppm	536 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Fe 259.940 (ETA AQ-Axial-iFR)	0.719 ppm	690 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.140 ppm	137 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.662 ppm	9 cps
Mg 279.079 (ETA AQ-Radial-iFR)	78.177 ppm	2,543 cps
Si 288.158 (ETA AQ-Radial-iFR)	12.462 ppm	755 cps
V 292.402 (ETA AQ-Axial-iFR)	0.007 ppm	8 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.266 ppm	10 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	162.375 ppm	28,203 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.007 ppm	11 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.060 ppm	129 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.058 ppm	371 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.504 %	4,724 cps
Y 360.073 (ETA AQ-Radial-iFR)	93.865 %	899 cps
Y 377.433 (ETA AQ-Axial-iFR)	98.100 %	6,584 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.244 %	1,243 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.466 ppm	8,618 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.044 ppm	378 cps
Na 589.592 (ETA AQ-Radial-iFR)	842.665 ppm	263,307 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.111 ppm	138 cps
K 766.490 (ETA AQ-Radial-iFR)	322.519 ppm	22,251 cps
Na 818.326 (ETA AQ-Radial-iFR)	875.339 ppm	7,304 cps

Label: 480-224843-i-1-a #: 33
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:48:21 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	4.867 ppm	139 cps
As 189.042 (ETA AQ-Axial-iFR)	0.008 ppm	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.005 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.013 ppm	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	1.736 ppm	374 cps
P 213.618 (ETA AQ-Axial-iFR)	0.290 ppm	15 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	94.578 %	334 cps
Y 224.306 (ETA AQ-Radial-iFR)	90.962 %	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.443 %	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.037 ppm	12 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.074 ppm	117 cps
Fe 259.940 (ETA AQ-Axial-iFR)	14.010 ppm	13,279 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	4 cps
Fe 271.441 (ETA AQ-Radial-iFR)	13.670 ppm	183 cps
Mg 279.079 (ETA AQ-Radial-iFR)	171.302 ppm	5,571 cps
Si 288.158 (ETA AQ-Radial-iFR)	18.903 ppm	1,144 cps
V 292.402 (ETA AQ-Axial-iFR)	0.003 ppm	4 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.079 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	146.376 ppm	25,416 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.001 ppm	14 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.500 %	4,676 cps
Y 360.073 (ETA AQ-Radial-iFR)	93.760 %	898 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.154 %	6,521 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.214 %	1,242 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.400 ppm	25,822 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.459 ppm	3,934 cps
Na 589.592 (ETA AQ-Radial-iFR)	365.785 ppm	114,258 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.078 ppm	96 cps
K 766.490 (ETA AQ-Radial-iFR)	102.770 ppm	7,089 cps
Na 818.326 (ETA AQ-Radial-iFR)	370.999 ppm	3,096 cps

Label: 480-224843-i-2-a #: 34
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:50:14 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	27.654 ppm	780 cps
As 189.042 (ETA AQ-Axial-iFR)	0.031 ppm	1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	-0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.005 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.082 ppm	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	8.002 ppm	1,718 cps
P 213.618 (ETA AQ-Axial-iFR)	3.922 ppm	262 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	94.815 %	335 cps
Y 224.306 (ETA AQ-Radial-iFR)	90.506 %	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.031 ppm	11 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.298 %	327 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.207 ppm	69 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.026 ppm	41 cps
Fe 259.940 (ETA AQ-Axial-iFR)	2.754 ppm	2,622 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.033 ppm	33 cps
Fe 271.441 (ETA AQ-Radial-iFR)	2.725 ppm	36 cps
Mg 279.079 (ETA AQ-Radial-iFR)	87.580 ppm	2,783 cps
Si 288.158 (ETA AQ-Radial-iFR)	24.985 ppm	1,478 cps
V 292.402 (ETA AQ-Axial-iFR)	0.030 ppm	40 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.290 ppm	10 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	3 cps
Ca 317.933 (ETA AQ-Radial-iFR)	34.785 ppm	5,905 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.002 ppm	3 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.050 ppm	104 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.049 ppm	310 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.054 %	4,703 cps
Y 360.073 (ETA AQ-Radial-iFR)	92.079 %	882 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.466 %	6,542 cps
Y 377.433 (ETA AQ-Radial-iFR)	91.079 %	1,214 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.990 ppm	17,843 cps

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QTEGRA

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ba 455.403 (ETA AQ-Radial-iFR)	0.614 ppm	5,240 cps
Na 589.592 (ETA AQ-Radial-iFR)	1,905.228 ppm	581,515 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.067 ppm	81 cps
K 766.490 (ETA AQ-Radial-iFR)	413.742 ppm	27,881 cps
Na 818.326 (ETA AQ-Radial-iFR)	2,067.050 ppm	16,843 cps

Label: CCV-8122457 #: 35
Analysis Type: QC Analysis started at: 10/29/2024 4:52:08 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	25.423 ppm	101.691 %
As 189.042 (ETA AQ-Axial-iFR)	0.975 ppm	97.541 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.970 ppm	96.980 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.965 ppm	96.543 %
Se 196.090 (ETA AQ-Axial-iFR)	0.994 ppm	99.374 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.967 ppm	96.682 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.997 ppm	99.659 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.966 ppm	96.644 %
B 208.959 (ETA AQ-Axial-iFR)	1.039 ppm	103.927 %
P 213.618 (ETA AQ-Axial-iFR)	25.204 ppm	100.817 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.998 ppm	99.811 %
Y 224.306 (ETA AQ-Axial-iFR)	94.799 %	
Y 224.306 (ETA AQ-Radial-iFR)	93.056 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.020 ppm	101.950 %
Cd 228.802 (ETA AQ-Axial-iFR)	1.019 ppm	101.891 %
In 230.606 (ETA AQ-Axial-iFR)	98.292 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.951 ppm	95.089 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.963 ppm	96.345 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.687 ppm	99.373 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.953 ppm	95.259 %
Fe 271.441 (ETA AQ-Radial-iFR)	49.692 ppm	99.385 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.185 ppm	98.371 %
Si 288.158 (ETA AQ-Radial-iFR)	11.902 ppm	119.024 %
V 292.402 (ETA AQ-Axial-iFR)	0.974 ppm	97.433 %
Al 308.215 (ETA AQ-Radial-iFR)	49.361 ppm	98.723 %
Be 313.042 (ETA AQ-Radial-iFR)	1.008 ppm	100.815 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.834 ppm	99.669 %
Cu 327.396 (ETA AQ-Axial-iFR)	1.008 ppm	100.773 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.962 ppm	96.164 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.966 ppm	96.571 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.989 ppm	98.869 %
Y 360.073 (ETA AQ-Axial-iFR)	96.646 %	
Y 360.073 (ETA AQ-Radial-iFR)	95.926 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.967 %	
Y 377.433 (ETA AQ-Radial-iFR)	94.873 %	
Sr 407.771 (ETA AQ-Radial-iFR)	1.011 ppm	101.055 %
Ba 455.403 (ETA AQ-Radial-iFR)	1.046 ppm	104.629 %
Na 589.592 (ETA AQ-Radial-iFR)	51.375 ppm	102.749 %
Li 670.784 (ETA AQ-Radial-iFR)	1.010 ppm	100.960 %
K 766.490 (ETA AQ-Radial-iFR)	51.716 ppm	103.432 %
Na 818.326 (ETA AQ-Radial-iFR)	51.143 ppm	102.287 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	717 cps
As 189.042 (ETA AQ-Axial-iFR)	47 cps

Analyte (Measure Mode)	Raw Intensity average
Sn 189.989 (ETA AQ-Axial-iFR)	108 cps
Tl 190.856 (ETA AQ-Axial-iFR)	33 cps
Se 196.090 (ETA AQ-Axial-iFR)	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	171 cps
Zn 206.200 (ETA AQ-Axial-iFR)	538 cps
Sb 206.833 (ETA AQ-Axial-iFR)	37 cps
B 208.959 (ETA AQ-Axial-iFR)	228 cps
P 213.618 (ETA AQ-Axial-iFR)	1,705 cps
Pb 220.353 (ETA AQ-Axial-iFR)	49 cps
Y 224.306 (ETA AQ-Axial-iFR)	335 cps
Y 224.306 (ETA AQ-Radial-iFR)	88 cps
Co 228.616 (ETA AQ-Axial-iFR)	428 cps
Cd 228.802 (ETA AQ-Axial-iFR)	771 cps
In 230.606 (ETA AQ-Axial-iFR)	333 cps
Ni 231.604 (ETA AQ-Axial-iFR)	314 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,564 cps
Fe 259.940 (ETA AQ-Axial-iFR)	47,191 cps
Cr 267.716 (ETA AQ-Axial-iFR)	911 cps
Fe 271.441 (ETA AQ-Radial-iFR)	679 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,628 cps
Si 288.158 (ETA AQ-Radial-iFR)	738 cps
V 292.402 (ETA AQ-Axial-iFR)	1,314 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,767 cps
Be 313.042 (ETA AQ-Radial-iFR)	8,233 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8,810 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,399 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,155 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,129 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6,046 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,635 cps
Y 360.073 (ETA AQ-Radial-iFR)	919 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,441 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,264 cps
Sr 407.771 (ETA AQ-Radial-iFR)	18,965 cps
Ba 455.403 (ETA AQ-Radial-iFR)	9,173 cps
Na 589.592 (ETA AQ-Radial-iFR)	16,327 cps
Li 670.784 (ETA AQ-Radial-iFR)	1,299 cps
K 766.490 (ETA AQ-Radial-iFR)	3,632 cps
Na 818.326 (ETA AQ-Radial-iFR)	437 cps

Label: CCB-8122474 #: 36
Analysis Type: QC Analysis started at: 10/29/2024 4:54:02 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.139 ppm	13.911 %
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	0.214 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.197 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	0.322 %
Se 196.090 (ETA AQ-Axial-iFR)	0.010 ppm	0.953 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.002 ppm	0.200 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	0.425 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.057 %
B 208.959 (ETA AQ-Axial-iFR)	0.018 ppm	1.807 %
P 213.618 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.093 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	0.409 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Y 224.306 (ETA AQ-Axial-iFR)	94.763 %	
Y 224.306 (ETA AQ-Radial-iFR)	94.583 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	0.085 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-0.019 %
In 230.606 (ETA AQ-Axial-iFR)	96.024 %	
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.059 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-0.002 %
Fe 259.940 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.156 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	0.106 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.010 ppm	0.993 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.017 ppm	1.669 %
Si 288.158 (ETA AQ-Radial-iFR)	0.300 ppm	29.960 %
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0.058 %
Al 308.215 (ETA AQ-Radial-iFR)	0.023 ppm	2.302 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.002 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.003 ppm	0.344 %
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.058 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	0.038 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.053 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.015 %
Y 360.073 (ETA AQ-Axial-iFR)	95.997 %	
Y 360.073 (ETA AQ-Radial-iFR)	96.942 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.427 %	
Y 377.433 (ETA AQ-Radial-iFR)	95.833 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.008 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.021 %
Na 589.592 (ETA AQ-Radial-iFR)	0.230 ppm	22.977 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.002 ppm	-0.167 %
K 766.490 (ETA AQ-Radial-iFR)	0.242 ppm	24.244 %
Na 818.326 (ETA AQ-Radial-iFR)	0.037 ppm	3.721 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	6 cps
As 189.042 (ETA AQ-Axial-iFR)	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	6 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	335 cps
Y 224.306 (ETA AQ-Radial-iFR)	89 cps
Co 228.616 (ETA AQ-Axial-iFR)	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	326 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	20 cps
V 292.402 (ETA AQ-Axial-iFR)	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	2 cps

Analyte (Measure Mode)	Raw Intensity average
Ca 317.933 (ETA AQ-Radial-iFR)	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,604 cps
Y 360.073 (ETA AQ-Radial-iFR)	929 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,405 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,277 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-4 cps
Ba 455.403 (ETA AQ-Radial-iFR)	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	67 cps
Li 670.784 (ETA AQ-Radial-iFR)	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	20 cps
Na 818.326 (ETA AQ-Radial-iFR)	4 cps

Label: CCVL-8122384 #: 37
Analysis Type: QC Analysis started at: 10/29/2024 4:55:56 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.346 ppm	173.083 %
As 189.042 (ETA AQ-Axial-iFR)	0.015 ppm	102.970 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.009 ppm	87.813 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.020 ppm	102.412 %
Se 196.090 (ETA AQ-Axial-iFR)	0.025 ppm	101.554 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.011 ppm	105.611 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.009 ppm	94.448 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.020 ppm	98.481 %
B 208.959 (ETA AQ-Axial-iFR)	0.034 ppm	168.022 %
P 213.618 (ETA AQ-Axial-iFR)	0.001 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.015 ppm	146.425 %
Y 224.306 (ETA AQ-Axial-iFR)	95.390 %	
Y 224.306 (ETA AQ-Radial-iFR)	95.506 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.005 ppm	113.986 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	92.556 %
In 230.606 (ETA AQ-Axial-iFR)	96.779 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.009 ppm	87.414 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	91.826 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.050 ppm	100.353 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.004 ppm	109.990 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.004 ppm	7.958 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.211 ppm	105.707 %
Si 288.158 (ETA AQ-Radial-iFR)	0.721 ppm	144.235 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	105.581 %
Al 308.215 (ETA AQ-Radial-iFR)	0.177 ppm	88.728 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	102.637 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.487 ppm	97.326 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	91.463 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	105.903 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	101.610 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	95.423 %
Y 360.073 (ETA AQ-Axial-iFR)	96.444 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.497 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.844 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.737 %	

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Analyte (Measure Mode)	Concentration average	Recovery Percentage
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	97.909 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	93.562 %
Na 589.592 (ETA AQ-Radial-iFR)	1.268 ppm	126.760 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	95.124 %
K 766.490 (ETA AQ-Radial-iFR)	0.722 ppm	144.328 %
Na 818.326 (ETA AQ-Radial-iFR)	1.025 ppm	102.453 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	12 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	9 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	337 cps
Y 224.306 (ETA AQ-Radial-iFR)	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	328 cps
Ni 231.604 (ETA AQ-Axial-iFR)	2 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	54 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	47 cps
V 292.402 (ETA AQ-Axial-iFR)	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	92 cps
Cu 327.396 (ETA AQ-Axial-iFR)	14 cps
Ag 328.068 (ETA AQ-Axial-iFR)	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	37 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,625 cps
Y 360.073 (ETA AQ-Radial-iFR)	934 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,433 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,289 cps
Sr 407.771 (ETA AQ-Radial-iFR)	91 cps
Ba 455.403 (ETA AQ-Radial-iFR)	17 cps
Na 589.592 (ETA AQ-Radial-iFR)	404 cps
Li 670.784 (ETA AQ-Radial-iFR)	35 cps
K 766.490 (ETA AQ-Radial-iFR)	54 cps
Na 818.326 (ETA AQ-Radial-iFR)	12 cps

Label: 480-224850-C-2-A #: 38
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:57:51 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.850 ppm	27 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.032 ppm	9 cps
P 213.618 (ETA AQ-Axial-iFR)	0.046 ppm	-1 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.543 %	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.222 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.585 %	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.099 ppm	163 cps
Fe 259.940 (ETA AQ-Axial-iFR)	1.460 ppm	1,404 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1.437 ppm	20 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1.910 ppm	65 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.981 ppm	376 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.085 ppm	3 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	3.553 ppm	644 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.004 ppm	2 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.003 ppm	29 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.934 %	4,649 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.442 %	934 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.424 %	6,472 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.635 %	1,288 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.036 ppm	692 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.011 ppm	97 cps
Na 589.592 (ETA AQ-Radial-iFR)	22.988 ppm	7,438 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	1.819 ppm	132 cps
Na 818.326 (ETA AQ-Radial-iFR)	22.832 ppm	201 cps

Label: 480-224850-C-3-A #: 39
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 4:59:44 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	1.139 ppm	35 cps
As 189.042 (ETA AQ-Axial-iFR)	0.007 ppm	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.003 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.014 ppm	9 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.037 ppm	10 cps
P 213.618 (ETA AQ-Axial-iFR)	0.271 ppm	14 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.701 %	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.125 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	97.939 %	332 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.554 ppm	915 cps
Fe 259.940 (ETA AQ-Axial-iFR)	4.418 ppm	4,242 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	4.282 ppm	59 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1.986 ppm	67 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.186 ppm	452 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.232 ppm	9 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	4.320 ppm	782 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.001 ppm	2 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.010 ppm	16 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.010 ppm	67 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.973 %	4,651 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.341 %	933 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.453 %	6,474 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.622 %	1,288 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.043 ppm	811 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.019 ppm	171 cps
Na 589.592 (ETA AQ-Radial-iFR)	23.670 ppm	7,658 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	2.526 ppm	183 cps
Na 818.326 (ETA AQ-Radial-iFR)	23.522 ppm	207 cps

Label: 480-224872-C-3-A #: 40
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:01:38 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	150.003 ppm	4,171 cps
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.010 ppm	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.008 ppm	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.013 ppm	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.207 ppm	46 cps
P 213.618 (ETA AQ-Axial-iFR)	0.019 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	93.702 %	331 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.488 %	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.765 %	335 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.110 ppm	175 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.294 ppm	282 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.278 ppm	4 cps
Mg 279.079 (ETA AQ-Radial-iFR)	59.123 ppm	1,928 cps
Si 288.158 (ETA AQ-Radial-iFR)	5.971 ppm	363 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.005 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	217.928 ppm	37,943 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.002 ppm	-4 cps
Ti 334.941 (ETA AQ-Axial-iFR)	-0.002 ppm	-4 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.038 %	4,654 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.160 %	902 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.503 %	6,477 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.473 %	1,246 cps
Sr 407.771 (ETA AQ-Radial-iFR)	1.986 ppm	36,744 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.047 ppm	405 cps
Na 589.592 (ETA AQ-Radial-iFR)	298.773 ppm	93,583 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.070 ppm	87 cps
K 766.490 (ETA AQ-Radial-iFR)	5.982 ppm	416 cps
Na 818.326 (ETA AQ-Radial-iFR)	300.495 ppm	2,516 cps

Label: 480-224872-C-3-ASD@5 #: 41
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:03:31 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	29.316 ppm	830 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.002 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.048 ppm	13 cps
P 213.618 (ETA AQ-Axial-iFR)	0.003 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.004 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.120 %	336 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.811 %	88 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.718 %	335 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.022 ppm	35 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.060 ppm	63 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.074 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	11.672 ppm	388 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.232 ppm	78 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.002 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	43.809 ppm	7,766 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.158 %	4,660 cps
Y 360.073 (ETA AQ-Radial-iFR)	96.103 %	921 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.657 %	6,488 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.124 %	1,268 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.397 ppm	7,472 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.009 ppm	80 cps
Na 589.592 (ETA AQ-Radial-iFR)	59.056 ppm	18,819 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.013 ppm	14 cps
K 766.490 (ETA AQ-Radial-iFR)	1.249 ppm	90 cps
Na 818.326 (ETA AQ-Radial-iFR)	58.951 ppm	505 cps

Label: 480-224872-C-3-APDS #: 42
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:05:25 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	146.998 ppm	4,085 cps
As 189.042 (ETA AQ-Axial-iFR)	0.849 ppm	41 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.820 ppm	91 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.863 ppm	30 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.865 ppm	46 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.423 ppm	75 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.403 ppm	227 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.438 ppm	17 cps
B 208.959 (ETA AQ-Axial-iFR)	0.654 ppm	142 cps
P 213.618 (ETA AQ-Axial-iFR)	0.019 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.429 ppm	21 cps
Y 224.306 (ETA AQ-Axial-iFR)	93.644 %	331 cps
Y 224.306 (ETA AQ-Radial-iFR)	90.607 %	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.436 ppm	182 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.449 ppm	338 cps
In 230.606 (ETA AQ-Axial-iFR)	98.409 %	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.408 ppm	135 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.517 ppm	828 cps
Fe 259.940 (ETA AQ-Axial-iFR)	9.129 ppm	8,570 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.399 ppm	384 cps
Fe 271.441 (ETA AQ-Radial-iFR)	8.730 ppm	118 cps
Mg 279.079 (ETA AQ-Radial-iFR)	101.443 ppm	3,311 cps
Si 288.158 (ETA AQ-Radial-iFR)	6.808 ppm	416 cps
V 292.402 (ETA AQ-Axial-iFR)	0.416 ppm	562 cps
Al 308.215 (ETA AQ-Radial-iFR)	8.666 ppm	306 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.439 ppm	3,537 cps
Ca 317.933 (ETA AQ-Radial-iFR)	255.240 ppm	44,476 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.449 ppm	628 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.042 ppm	87 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.429 ppm	948 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.438 ppm	2,696 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.137 %	4,659 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.045 %	901 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.740 %	6,493 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.551 %	1,247 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.386 ppm	44,179 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.961 ppm	8,202 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Na 589.592 (ETA AQ-Radial-iFR)	338.707 ppm	106,181 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.509 ppm	644 cps
K 766.490 (ETA AQ-Radial-iFR)	51.184 ppm	3,545 cps
Na 818.326 (ETA AQ-Radial-iFR)	340.841 ppm	2,855 cps

Label: 480-224872-C-3-B MS #: 43
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:07:18 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	158.725 ppm	4,397 cps
As 189.042 (ETA AQ-Axial-iFR)	1.003 ppm	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.970 ppm	107 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.018 ppm	35 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.016 ppm	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.498 ppm	88 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.464 ppm	259 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.496 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.725 ppm	157 cps
P 213.618 (ETA AQ-Axial-iFR)	10.095 ppm	670 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.506 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	93.370 %	330 cps
Y 224.306 (ETA AQ-Radial-iFR)	91.428 %	86 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.513 ppm	214 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.529 ppm	397 cps
In 230.606 (ETA AQ-Axial-iFR)	98.230 %	333 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.483 ppm	160 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.595 ppm	957 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.523 ppm	5,172 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.473 ppm	453 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.275 ppm	72 cps
Mg 279.079 (ETA AQ-Radial-iFR)	85.920 ppm	2,818 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.239 ppm	445 cps
V 292.402 (ETA AQ-Axial-iFR)	0.491 ppm	662 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.068 ppm	180 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.517 ppm	4,188 cps
Ca 317.933 (ETA AQ-Radial-iFR)	247.035 ppm	43,262 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.530 ppm	739 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.049 ppm	101 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.505 ppm	1,110 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.517 ppm	3,167 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.676 %	4,637 cps
Y 360.073 (ETA AQ-Radial-iFR)	94.523 %	906 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.334 %	6,466 cps
Y 377.433 (ETA AQ-Radial-iFR)	94.022 %	1,253 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.549 ppm	47,426 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.113 ppm	9,589 cps
Na 589.592 (ETA AQ-Radial-iFR)	332.488 ppm	104,755 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.591 ppm	753 cps
K 766.490 (ETA AQ-Radial-iFR)	32.179 ppm	2,241 cps
Na 818.326 (ETA AQ-Radial-iFR)	334.041 ppm	2,812 cps

Label: 480-224872-C-3-C MSD #: 44
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:09:12 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	156.381 ppm	4,344 cps
As 189.042 (ETA AQ-Axial-iFR)	1.000 ppm	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.969 ppm	107 cps
Tl 190.856 (ETA AQ-Axial-iFR)	1.013 ppm	35 cps
Se 196.090 (ETA AQ-Axial-iFR)	1.014 ppm	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.496 ppm	87 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.464 ppm	259 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.499 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.718 ppm	156 cps
P 213.618 (ETA AQ-Axial-iFR)	10.072 ppm	670 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.512 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	93.608 %	331 cps
Y 224.306 (ETA AQ-Radial-iFR)	90.395 %	85 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.513 ppm	215 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.528 ppm	398 cps
In 230.606 (ETA AQ-Axial-iFR)	98.296 %	333 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.481 ppm	159 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.594 ppm	946 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.480 ppm	5,144 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.473 ppm	455 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.261 ppm	71 cps
Mg 279.079 (ETA AQ-Radial-iFR)	84.863 ppm	2,756 cps
Si 288.158 (ETA AQ-Radial-iFR)	7.098 ppm	432 cps
V 292.402 (ETA AQ-Axial-iFR)	0.489 ppm	660 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.027 ppm	177 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.518 ppm	4,150 cps
Ca 317.933 (ETA AQ-Radial-iFR)	244.139 ppm	42,322 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.528 ppm	739 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.048 ppm	100 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.505 ppm	1,113 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.517 ppm	3,174 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.953 %	4,650 cps
Y 360.073 (ETA AQ-Radial-iFR)	93.673 %	898 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.616 %	6,485 cps
Y 377.433 (ETA AQ-Radial-iFR)	93.071 %	1,240 cps
Sr 407.771 (ETA AQ-Radial-iFR)	2.521 ppm	46,443 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.114 ppm	9,487 cps
Na 589.592 (ETA AQ-Radial-iFR)	327.951 ppm	102,280 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.593 ppm	747 cps
K 766.490 (ETA AQ-Radial-iFR)	31.952 ppm	2,202 cps
Na 818.326 (ETA AQ-Radial-iFR)	329.972 ppm	2,750 cps

Label: rinse #: 45
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:11:05 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.107 ppm	6 cps
As 189.042 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.003 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Sb 206.833 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.010 ppm	4 cps
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.713 %	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.321 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.473 %	327 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.004 ppm	10 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	-0.023 ppm	-1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.004 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.063 ppm	5 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.011 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.002 ppm	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-6 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.682 %	4,637 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.042 %	930 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.175 %	6,455 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.388 %	1,285 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.132 ppm	36 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-3 cps
K 766.490 (ETA AQ-Radial-iFR)	0.101 ppm	10 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.087 ppm	4 cps

Label: CCV-8122457 #: 46
Analysis Type: QC Analysis started at: 10/29/2024 5:12:59 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	25.388 ppm	101.552 %
As 189.042 (ETA AQ-Axial-iFR)	0.966 ppm	96.595 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.963 ppm	96.306 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.958 ppm	95.841 %
Se 196.090 (ETA AQ-Axial-iFR)	0.994 ppm	99.357 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.966 ppm	96.558 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.995 ppm	99.458 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.966 ppm	96.599 %
B 208.959 (ETA AQ-Axial-iFR)	1.023 ppm	102.258 %
P 213.618 (ETA AQ-Axial-iFR)	25.246 ppm	100.984 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.991 ppm	99.118 %
Y 224.306 (ETA AQ-Axial-iFR)	95.319 %	
Y 224.306 (ETA AQ-Radial-iFR)	95.243 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.018 ppm	101.842 %
Cd 228.802 (ETA AQ-Axial-iFR)	1.018 ppm	101.846 %
In 230.606 (ETA AQ-Axial-iFR)	98.979 %	

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Ni 231.604 (ETA AQ-Axial-iFR)	0.945 ppm	94.509 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.956 ppm	95.556 %
Fe 259.940 (ETA AQ-Axial-iFR)	49.696 ppm	99.391 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.950 ppm	94.967 %
Fe 271.441 (ETA AQ-Radial-iFR)	48.966 ppm	97.931 %
Mg 279.079 (ETA AQ-Radial-iFR)	48.903 ppm	97.806 %
Si 288.158 (ETA AQ-Radial-iFR)	10.189 ppm	101.890 %
V 292.402 (ETA AQ-Axial-iFR)	0.971 ppm	97.125 %
Al 308.215 (ETA AQ-Radial-iFR)	49.056 ppm	98.112 %
Be 313.042 (ETA AQ-Radial-iFR)	0.997 ppm	99.726 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.317 ppm	98.634 %
Cu 327.396 (ETA AQ-Axial-iFR)	1.004 ppm	100.447 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.962 ppm	96.182 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.963 ppm	96.269 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.988 ppm	98.800 %
Y 360.073 (ETA AQ-Axial-iFR)	97.408 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.131 %	
Y 377.433 (ETA AQ-Axial-iFR)	96.846 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.795 %	
Sr 407.771 (ETA AQ-Radial-iFR)	1.001 ppm	100.119 %
Ba 455.403 (ETA AQ-Radial-iFR)	1.031 ppm	103.069 %
Na 589.592 (ETA AQ-Radial-iFR)	50.936 ppm	101.872 %
Li 670.784 (ETA AQ-Radial-iFR)	0.997 ppm	99.722 %
K 766.490 (ETA AQ-Radial-iFR)	51.014 ppm	102.028 %
Na 818.326 (ETA AQ-Radial-iFR)	50.343 ppm	100.685 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	720 cps
As 189.042 (ETA AQ-Axial-iFR)	47 cps
Sn 189.989 (ETA AQ-Axial-iFR)	108 cps
Tl 190.856 (ETA AQ-Axial-iFR)	33 cps
Se 196.090 (ETA AQ-Axial-iFR)	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	172 cps
Zn 206.200 (ETA AQ-Axial-iFR)	541 cps
Sb 206.833 (ETA AQ-Axial-iFR)	37 cps
B 208.959 (ETA AQ-Axial-iFR)	226 cps
P 213.618 (ETA AQ-Axial-iFR)	1,717 cps
Pb 220.353 (ETA AQ-Axial-iFR)	49 cps
Y 224.306 (ETA AQ-Axial-iFR)	337 cps
Y 224.306 (ETA AQ-Radial-iFR)	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	431 cps
Cd 228.802 (ETA AQ-Axial-iFR)	775 cps
In 230.606 (ETA AQ-Axial-iFR)	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	314 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,582 cps
Fe 259.940 (ETA AQ-Axial-iFR)	47,455 cps
Cr 267.716 (ETA AQ-Axial-iFR)	916 cps
Fe 271.441 (ETA AQ-Radial-iFR)	682 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,651 cps
Si 288.158 (ETA AQ-Radial-iFR)	645 cps
V 292.402 (ETA AQ-Axial-iFR)	1,320 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,792 cps
Be 313.042 (ETA AQ-Radial-iFR)	8,309 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8,895 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,407 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,172 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,139 cps
Ti 334.941 (ETA AQ-Axial-iFR)	6,089 cps

Analyte (Measure Mode)	Raw Intensity average
Y 360.073 (ETA AQ-Axial-iFR)	4,672 cps
Y 360.073 (ETA AQ-Radial-iFR)	931 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,500 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,290 cps
Sr 407.771 (ETA AQ-Radial-iFR)	19,170 cps
Ba 455.403 (ETA AQ-Radial-iFR)	9,250 cps
Na 589.592 (ETA AQ-Radial-iFR)	16,516 cps
Li 670.784 (ETA AQ-Radial-iFR)	1,309 cps
K 766.490 (ETA AQ-Radial-iFR)	3,655 cps
Na 818.326 (ETA AQ-Radial-iFR)	439 cps

Label: CCB-8122474 #: 47
Analysis Type: QC Analysis started at: 10/29/2024 5:14:53 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.099 ppm	9.854 %
As 189.042 (ETA AQ-Axial-iFR)	0.005 ppm	0.452 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.186 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.006 ppm	0.577 %
Se 196.090 (ETA AQ-Axial-iFR)	0.003 ppm	0.343 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0.046 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	0.396 %
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.128 %
B 208.959 (ETA AQ-Axial-iFR)	0.009 ppm	0.916 %
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	0.735 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0.169 %
Y 224.306 (ETA AQ-Axial-iFR)	95.602 %	
Y 224.306 (ETA AQ-Radial-iFR)	95.113 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	0.037 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-0.025 %
In 230.606 (ETA AQ-Axial-iFR)	95.956 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	-0.038 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.019 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	0.169 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0.049 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.014 ppm	1.354 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.005 ppm	0.496 %
Si 288.158 (ETA AQ-Radial-iFR)	0.086 ppm	8.579 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	0.029 %
Al 308.215 (ETA AQ-Radial-iFR)	0.013 ppm	1.297 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.003 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.007 ppm	0.690 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	-0.023 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0.055 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.096 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.017 %
Y 360.073 (ETA AQ-Axial-iFR)	96.188 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.660 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.763 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.683 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.005 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.002 %
Na 589.592 (ETA AQ-Radial-iFR)	0.108 ppm	10.752 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.127 %
K 766.490 (ETA AQ-Radial-iFR)	0.072 ppm	7.170 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Na 818.326 (ETA AQ-Radial-iFR)	0.034 ppm	3.408 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	3 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	4 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	326 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	8 cps
Cr 267.716 (ETA AQ-Axial-iFR)	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	7 cps
V 292.402 (ETA AQ-Axial-iFR)	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	6 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,613 cps
Y 360.073 (ETA AQ-Radial-iFR)	936 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,428 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,289 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-4 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0 cps
Na 589.592 (ETA AQ-Radial-iFR)	28 cps
Li 670.784 (ETA AQ-Radial-iFR)	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	7 cps
Na 818.326 (ETA AQ-Radial-iFR)	4 cps

Label: CCVL-8122384 #: 48
Analysis Type: QC Analysis started at: 10/29/2024 5:16:47 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.287 ppm	143.601 %
As 189.042 (ETA AQ-Axial-iFR)	0.017 ppm	113.474 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.006 ppm	64.952 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.021 ppm	105.708 %
Se 196.090 (ETA AQ-Axial-iFR)	0.025 ppm	100.281 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.010 ppm	101.569 %

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Analyte (Measure Mode)	Concentration average	Recovery Percentage
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	95.061 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.022 ppm	109.038 %
B 208.959 (ETA AQ-Axial-iFR)	0.028 ppm	137.872 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.010 ppm	101.125 %
Y 224.306 (ETA AQ-Axial-iFR)	95.356 %	
Y 224.306 (ETA AQ-Radial-iFR)	94.807 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.005 ppm	130.225 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	85.076 %
In 230.606 (ETA AQ-Axial-iFR)	96.883 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.009 ppm	93.001 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	95.149 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.049 ppm	97.846 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.005 ppm	116.133 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.079 ppm	157.199 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.203 ppm	101.563 %
Si 288.158 (ETA AQ-Radial-iFR)	0.557 ppm	111.466 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	97.680 %
Al 308.215 (ETA AQ-Radial-iFR)	0.174 ppm	87.072 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	97.627 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.496 ppm	99.236 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	92.584 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	99.630 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	105.007 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	97.191 %
Y 360.073 (ETA AQ-Axial-iFR)	96.531 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.254 %	
Y 377.433 (ETA AQ-Axial-iFR)	95.889 %	
Y 377.433 (ETA AQ-Radial-iFR)	96.470 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	97.248 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	96.176 %
Na 589.592 (ETA AQ-Radial-iFR)	1.132 ppm	113.211 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	96.976 %
K 766.490 (ETA AQ-Radial-iFR)	0.565 ppm	113.056 %
Na 818.326 (ETA AQ-Radial-iFR)	1.005 ppm	100.488 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	11 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	3 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	8 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	337 cps
Y 224.306 (ETA AQ-Radial-iFR)	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	3 cps
In 230.606 (ETA AQ-Axial-iFR)	329 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	53 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	1 cps

Analyte (Measure Mode)	Raw Intensity average
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	36 cps
V 292.402 (ETA AQ-Axial-iFR)	5 cps
Al 308.215 (ETA AQ-Radial-iFR)	7 cps
Be 313.042 (ETA AQ-Radial-iFR)	18 cps
Ca 317.933 (ETA AQ-Radial-iFR)	93 cps
Cu 327.396 (ETA AQ-Axial-iFR)	14 cps
Ag 328.068 (ETA AQ-Axial-iFR)	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	38 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,630 cps
Y 360.073 (ETA AQ-Radial-iFR)	932 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,436 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,286 cps
Sr 407.771 (ETA AQ-Radial-iFR)	90 cps
Ba 455.403 (ETA AQ-Radial-iFR)	17 cps
Na 589.592 (ETA AQ-Radial-iFR)	359 cps
Li 670.784 (ETA AQ-Radial-iFR)	36 cps
K 766.490 (ETA AQ-Radial-iFR)	43 cps
Na 818.326 (ETA AQ-Radial-iFR)	12 cps

Label: MB 480-730259/1-A #: 49
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:18:42 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.089 ppm	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.003 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.004 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.001 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.002 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.007 ppm	4 cps
P 213.618 (ETA AQ-Axial-iFR)	0.000 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.008 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.802 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.785 %	91 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.476 %	327 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.008 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	-0.007 ppm	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.034 ppm	4 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.015 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.014 ppm	7 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.000 ppm	-6 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.547 %	4,630 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.231 %	941 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.051 %	6,447 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.210 %	1,296 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-4 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.096 ppm	24 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.003 ppm	-6 cps
K 766.490 (ETA AQ-Radial-iFR)	0.077 ppm	8 cps
Na 818.326 (ETA AQ-Radial-iFR)	-0.052 ppm	3 cps

Label: LCS 480-730259/2-A #: 50
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:20:35 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	5.060 ppm	146 cps
As 189.042 (ETA AQ-Axial-iFR)	0.983 ppm	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.969 ppm	108 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.965 ppm	34 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.974 ppm	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.491 ppm	89 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.513 ppm	279 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.493 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.510 ppm	114 cps
P 213.618 (ETA AQ-Axial-iFR)	9.901 ppm	674 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.505 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.735 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.532 %	89 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.519 ppm	219 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.510 ppm	393 cps
In 230.606 (ETA AQ-Axial-iFR)	99.091 %	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.492 ppm	164 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.490 ppm	811 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.271 ppm	5,062 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.484 ppm	467 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.123 ppm	71 cps
Mg 279.079 (ETA AQ-Radial-iFR)	24.536 ppm	828 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.054 ppm	70 cps
V 292.402 (ETA AQ-Axial-iFR)	0.492 ppm	667 cps
Al 308.215 (ETA AQ-Radial-iFR)	5.014 ppm	184 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.520 ppm	4,335 cps
Ca 317.933 (ETA AQ-Radial-iFR)	25.197 ppm	4,544 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.488 ppm	685 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.047 ppm	97 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.506 ppm	1,120 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.519 ppm	3,201 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.363 %	4,670 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.472 %	934 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.933 %	6,506 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.739 %	1,289 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.523 ppm	10,008 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.068 ppm	9,511 cps
Na 589.592 (ETA AQ-Radial-iFR)	25.942 ppm	8,404 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.508 ppm	666 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
K 766.490 (ETA AQ-Radial-iFR)	25.668 ppm	1,839 cps
Na 818.326 (ETA AQ-Radial-iFR)	25.441 ppm	223 cps

Label: 240-213309-D-1-A #: 51
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:22:29 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	21.289 ppm	605 cps
As 189.042 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.025 ppm	6 cps
Zn 206.200 (ETA AQ-Axial-iFR)	-0.002 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.005 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.195 ppm	44 cps
P 213.618 (ETA AQ-Axial-iFR)	0.023 ppm	-3 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.006 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.370 %	337 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.443 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	99.771 %	338 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.008 ppm	2 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.029 ppm	47 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.416 ppm	404 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.439 ppm	6 cps
Mg 279.079 (ETA AQ-Radial-iFR)	4.494 ppm	153 cps
Si 288.158 (ETA AQ-Radial-iFR)	8.019 ppm	507 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.011 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	42.397 ppm	7,677 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	6 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.556 %	4,679 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.652 %	936 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.108 %	6,518 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.166 %	1,295 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.249 ppm	4,790 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.037 ppm	337 cps
Na 589.592 (ETA AQ-Radial-iFR)	52.187 ppm	16,987 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.021 ppm	26 cps
K 766.490 (ETA AQ-Radial-iFR)	6.341 ppm	458 cps
Na 818.326 (ETA AQ-Radial-iFR)	51.757 ppm	453 cps

Label: 240-213309-D-1-ASD@5 #: 52
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:24:23 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	4.229 ppm	123 cps
As 189.042 (ETA AQ-Axial-iFR)	0.002 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-0.001 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.005 ppm	2 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.045 ppm	12 cps
P 213.618 (ETA AQ-Axial-iFR)	0.007 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.002 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.790 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.011 %	92 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	98.805 %	335 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.001 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.006 ppm	9 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.083 ppm	86 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.089 ppm	1 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.898 ppm	31 cps
Si 288.158 (ETA AQ-Radial-iFR)	1.619 ppm	104 cps
V 292.402 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	0.009 ppm	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8.336 ppm	1,521 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	8 cps
Y 360.073 (ETA AQ-Axial-iFR)	96.885 %	4,647 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.587 %	945 cps
Y 377.433 (ETA AQ-Axial-iFR)	96.496 %	6,477 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.656 %	1,302 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.049 ppm	942 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.007 ppm	65 cps
Na 589.592 (ETA AQ-Radial-iFR)	10.426 ppm	3,405 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.004 ppm	4 cps
K 766.490 (ETA AQ-Radial-iFR)	1.281 ppm	95 cps
Na 818.326 (ETA AQ-Radial-iFR)	10.161 ppm	92 cps

Label: 240-213309-D-1-APDS #: 53
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:26:16 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	21.103 ppm	598 cps
As 189.042 (ETA AQ-Axial-iFR)	0.904 ppm	44 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.883 ppm	99 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.914 ppm	32 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.909 ppm	49 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.471 ppm	84 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.447 ppm	246 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.449 ppm	17 cps
B 208.959 (ETA AQ-Axial-iFR)	0.651 ppm	144 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
P 213.618 (ETA AQ-Axial-iFR)	0.027 ppm	-2 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.464 ppm	23 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.145 %	336 cps
Y 224.306 (ETA AQ-Radial-iFR)	94.836 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.468 ppm	197 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.466 ppm	357 cps
In 230.606 (ETA AQ-Axial-iFR)	99.157 %	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.453 ppm	151 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.470 ppm	777 cps
Fe 259.940 (ETA AQ-Axial-iFR)	9.635 ppm	9,190 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.434 ppm	419 cps
Fe 271.441 (ETA AQ-Radial-iFR)	9.405 ppm	131 cps
Mg 279.079 (ETA AQ-Radial-iFR)	48.105 ppm	1,624 cps
Si 288.158 (ETA AQ-Radial-iFR)	8.901 ppm	562 cps
V 292.402 (ETA AQ-Axial-iFR)	0.446 ppm	605 cps
Al 308.215 (ETA AQ-Radial-iFR)	8.857 ppm	324 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.474 ppm	3,949 cps
Ca 317.933 (ETA AQ-Radial-iFR)	85.258 ppm	15,368 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.458 ppm	644 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.043 ppm	89 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.459 ppm	1,017 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.468 ppm	2,888 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.451 %	4,674 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.206 %	931 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.028 %	6,513 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.751 %	1,290 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.713 ppm	13,646 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.999 ppm	8,926 cps
Na 589.592 (ETA AQ-Radial-iFR)	96.867 ppm	31,401 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.488 ppm	638 cps
K 766.490 (ETA AQ-Radial-iFR)	52.458 ppm	3,757 cps
Na 818.326 (ETA AQ-Radial-iFR)	96.158 ppm	835 cps

Label: 240-213309-D-1-B MS #: 54
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:28:10 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	26.422 ppm	753 cps
As 189.042 (ETA AQ-Axial-iFR)	0.964 ppm	47 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.952 ppm	107 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.955 ppm	33 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.957 ppm	52 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.505 ppm	91 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.489 ppm	270 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.490 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.692 ppm	154 cps
P 213.618 (ETA AQ-Axial-iFR)	9.921 ppm	676 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.492 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.820 %	339 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.270 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.503 ppm	213 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.497 ppm	383 cps
In 230.606 (ETA AQ-Axial-iFR)	99.680 %	338 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.486 ppm	163 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.504 ppm	835 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Fe 259.940 (ETA AQ-Axial-iFR)	5.618 ppm	5,399 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.469 ppm	455 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.460 ppm	76 cps
Mg 279.079 (ETA AQ-Radial-iFR)	28.594 ppm	967 cps
Si 288.158 (ETA AQ-Radial-iFR)	9.101 ppm	576 cps
V 292.402 (ETA AQ-Axial-iFR)	0.479 ppm	654 cps
Al 308.215 (ETA AQ-Radial-iFR)	4.954 ppm	182 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.510 ppm	4,252 cps
Ca 317.933 (ETA AQ-Radial-iFR)	66.975 ppm	12,094 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.487 ppm	689 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.047 ppm	99 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.491 ppm	1,094 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.501 ppm	3,110 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.041 %	4,702 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.564 %	935 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.823 %	6,566 cps
Y 377.433 (ETA AQ-Radial-iFR)	96.923 %	1,292 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.753 ppm	14,435 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.066 ppm	9,570 cps
Na 589.592 (ETA AQ-Radial-iFR)	77.329 ppm	25,109 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.519 ppm	681 cps
K 766.490 (ETA AQ-Radial-iFR)	31.569 ppm	2,266 cps
Na 818.326 (ETA AQ-Radial-iFR)	77.057 ppm	671 cps

Label: 240-213309-D-1-C MSD #: 55
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:30:04 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	26.019 ppm	748 cps
As 189.042 (ETA AQ-Axial-iFR)	0.966 ppm	48 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.958 ppm	108 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.967 ppm	34 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.968 ppm	53 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.507 ppm	92 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.489 ppm	270 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.480 ppm	19 cps
B 208.959 (ETA AQ-Axial-iFR)	0.685 ppm	153 cps
P 213.618 (ETA AQ-Axial-iFR)	9.798 ppm	673 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.498 ppm	25 cps
Y 224.306 (ETA AQ-Axial-iFR)	96.601 %	342 cps
Y 224.306 (ETA AQ-Radial-iFR)	95.628 %	90 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.510 ppm	217 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.499 ppm	388 cps
In 230.606 (ETA AQ-Axial-iFR)	99.995 %	339 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.491 ppm	165 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.511 ppm	849 cps
Fe 259.940 (ETA AQ-Axial-iFR)	5.554 ppm	5,381 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.475 ppm	462 cps
Fe 271.441 (ETA AQ-Radial-iFR)	5.461 ppm	76 cps
Mg 279.079 (ETA AQ-Radial-iFR)	28.425 ppm	963 cps
Si 288.158 (ETA AQ-Radial-iFR)	9.011 ppm	571 cps
V 292.402 (ETA AQ-Axial-iFR)	0.483 ppm	660 cps
Al 308.215 (ETA AQ-Radial-iFR)	4.944 ppm	182 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.516 ppm	4,312 cps
Ca 317.933 (ETA AQ-Radial-iFR)	66.429 ppm	12,014 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Cu 327.396 (ETA AQ-Axial-iFR)	0.492 ppm	698 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.047 ppm	100 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.498 ppm	1,112 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.508 ppm	3,158 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.210 %	4,710 cps
Y 360.073 (ETA AQ-Radial-iFR)	97.655 %	936 cps
Y 377.433 (ETA AQ-Axial-iFR)	98.118 %	6,586 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.073 %	1,294 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.756 ppm	14,512 cps
Ba 455.403 (ETA AQ-Radial-iFR)	1.076 ppm	9,699 cps
Na 589.592 (ETA AQ-Radial-iFR)	76.487 ppm	24,875 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.523 ppm	687 cps
K 766.490 (ETA AQ-Radial-iFR)	31.313 ppm	2,251 cps
Na 818.326 (ETA AQ-Radial-iFR)	75.862 ppm	662 cps

Label: 480-224885-A-1-A #: 56
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:31:57 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	119.842 ppm	3,400 cps
As 189.042 (ETA AQ-Axial-iFR)	0.610 ppm	30 cps
Sn 189.989 (ETA AQ-Axial-iFR)	0.003 ppm	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.005 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.009 ppm	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.003 ppm	20 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0.233 ppm	9 cps
B 208.959 (ETA AQ-Axial-iFR)	6.653 ppm	1,440 cps
P 213.618 (ETA AQ-Axial-iFR)	3.046 ppm	204 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.007 ppm	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	95.588 %	338 cps
Y 224.306 (ETA AQ-Radial-iFR)	92.994 %	88 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.017 ppm	5 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	4 cps
In 230.606 (ETA AQ-Axial-iFR)	99.002 %	336 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.151 ppm	51 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.444 ppm	723 cps
Fe 259.940 (ETA AQ-Axial-iFR)	10.417 ppm	9,981 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.030 ppm	29 cps
Fe 271.441 (ETA AQ-Radial-iFR)	10.226 ppm	140 cps
Mg 279.079 (ETA AQ-Radial-iFR)	114.844 ppm	3,813 cps
Si 288.158 (ETA AQ-Radial-iFR)	15.543 ppm	961 cps
V 292.402 (ETA AQ-Axial-iFR)	0.011 ppm	14 cps
Al 308.215 (ETA AQ-Radial-iFR)	1.282 ppm	46 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	136.877 ppm	24,265 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0.006 ppm	9 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-2 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.056 ppm	119 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.054 ppm	347 cps
Y 360.073 (ETA AQ-Axial-iFR)	98.514 %	4,725 cps
Y 360.073 (ETA AQ-Radial-iFR)	95.212 %	912 cps
Y 377.433 (ETA AQ-Axial-iFR)	98.551 %	6,615 cps
Y 377.433 (ETA AQ-Radial-iFR)	95.166 %	1,268 cps
Sr 407.771 (ETA AQ-Radial-iFR)	4.597 ppm	86,527 cps

Analyte (Measure Mode)	Concentration average	Raw Intensity average
Ba 455.403 (ETA AQ-Radial-iFR)	0.448 ppm	3,929 cps
Na 589.592 (ETA AQ-Radial-iFR)	627.120 ppm	199,996 cps
Li 670.784 (ETA AQ-Radial-iFR)	0.090 ppm	115 cps
K 766.490 (ETA AQ-Radial-iFR)	144.775 ppm	10,195 cps
Na 818.326 (ETA AQ-Radial-iFR)	641.494 ppm	5,464 cps

Label: rinse #: 57
Analysis Type: UNKNOWN Analysis started at: 10/29/2024 5:33:51 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	0.066 ppm	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0.003 ppm	-1 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-0.002 ppm	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	0.002 ppm	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Sb 206.833 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
B 208.959 (ETA AQ-Axial-iFR)	0.015 ppm	5 cps
P 213.618 (ETA AQ-Axial-iFR)	0.004 ppm	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0.006 ppm	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	97.241 %	344 cps
Y 224.306 (ETA AQ-Radial-iFR)	97.439 %	92 cps
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	2 cps
In 230.606 (ETA AQ-Axial-iFR)	96.961 %	329 cps
Ni 231.604 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	-1 cps
Fe 259.940 (ETA AQ-Axial-iFR)	0.002 ppm	8 cps
Cr 267.716 (ETA AQ-Axial-iFR)	0.000 ppm	0 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0.028 ppm	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0.015 ppm	1 cps
Si 288.158 (ETA AQ-Radial-iFR)	0.067 ppm	6 cps
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	-0.020 ppm	0 cps
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	0.001 ppm	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	9 cps
Y 360.073 (ETA AQ-Axial-iFR)	97.134 %	4,659 cps
Y 360.073 (ETA AQ-Radial-iFR)	98.042 %	939 cps
Y 377.433 (ETA AQ-Axial-iFR)	97.234 %	6,526 cps
Y 377.433 (ETA AQ-Radial-iFR)	97.551 %	1,300 cps
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-3 cps
Na 589.592 (ETA AQ-Radial-iFR)	0.124 ppm	34 cps
Li 670.784 (ETA AQ-Radial-iFR)	-0.002 ppm	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	0.063 ppm	7 cps
Na 818.326 (ETA AQ-Radial-iFR)	0.001 ppm	3 cps

Label: CCV-8122457 #: 58
Analysis Type: QC Analysis started at: 10/29/2024 5:35:45 PM

Basic Sample Report
10/30/2024 8:33:32 AM

QTEGRA

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	25.203 ppm	100.813 %
As 189.042 (ETA AQ-Axial-iFR)	0.970 ppm	96.995 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.985 ppm	98.461 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.965 ppm	96.546 %
Se 196.090 (ETA AQ-Axial-iFR)	0.967 ppm	96.738 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.966 ppm	96.596 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.987 ppm	98.706 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.966 ppm	96.568 %
B 208.959 (ETA AQ-Axial-iFR)	1.011 ppm	101.147 %
P 213.618 (ETA AQ-Axial-iFR)	25.101 ppm	100.405 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.994 ppm	99.394 %
Y 224.306 (ETA AQ-Axial-iFR)	94.270 %	
Y 224.306 (ETA AQ-Radial-iFR)	96.249 %	
Co 228.616 (ETA AQ-Axial-iFR)	1.009 ppm	100.899 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.991 ppm	99.137 %
In 230.606 (ETA AQ-Axial-iFR)	98.503 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.973 ppm	97.332 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.967 ppm	96.716 %
Fe 259.940 (ETA AQ-Axial-iFR)	50.067 ppm	100.134 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.972 ppm	97.193 %
Fe 271.441 (ETA AQ-Radial-iFR)	50.153 ppm	100.307 %
Mg 279.079 (ETA AQ-Radial-iFR)	49.027 ppm	98.054 %
Si 288.158 (ETA AQ-Radial-iFR)	10.106 ppm	101.064 %
V 292.402 (ETA AQ-Axial-iFR)	0.983 ppm	98.319 %
Al 308.215 (ETA AQ-Radial-iFR)	48.987 ppm	97.974 %
Be 313.042 (ETA AQ-Radial-iFR)	1.009 ppm	100.862 %
Ca 317.933 (ETA AQ-Radial-iFR)	49.473 ppm	98.947 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.987 ppm	98.723 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.980 ppm	97.985 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.983 ppm	98.327 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.987 ppm	98.699 %
Y 360.073 (ETA AQ-Axial-iFR)	94.777 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.466 %	
Y 377.433 (ETA AQ-Axial-iFR)	94.424 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.111 %	
Sr 407.771 (ETA AQ-Radial-iFR)	1.005 ppm	100.499 %
Ba 455.403 (ETA AQ-Radial-iFR)	1.024 ppm	102.406 %
Na 589.592 (ETA AQ-Radial-iFR)	50.646 ppm	101.293 %
Li 670.784 (ETA AQ-Radial-iFR)	1.004 ppm	100.437 %
K 766.490 (ETA AQ-Radial-iFR)	50.638 ppm	101.277 %
Na 818.326 (ETA AQ-Radial-iFR)	49.979 ppm	99.958 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	707 cps
As 189.042 (ETA AQ-Axial-iFR)	47 cps
Sn 189.989 (ETA AQ-Axial-iFR)	109 cps
Tl 190.856 (ETA AQ-Axial-iFR)	33 cps
Se 196.090 (ETA AQ-Axial-iFR)	51 cps
Mo 202.030 (ETA AQ-Axial-iFR)	170 cps
Zn 206.200 (ETA AQ-Axial-iFR)	522 cps
Sb 206.833 (ETA AQ-Axial-iFR)	37 cps
B 208.959 (ETA AQ-Axial-iFR)	221 cps
P 213.618 (ETA AQ-Axial-iFR)	1,688 cps
Pb 220.353 (ETA AQ-Axial-iFR)	49 cps
Y 224.306 (ETA AQ-Axial-iFR)	333 cps

Analyte (Measure Mode)	Raw Intensity average
Y 224.306 (ETA AQ-Radial-iFR)	91 cps
Co 228.616 (ETA AQ-Axial-iFR)	425 cps
Cd 228.802 (ETA AQ-Axial-iFR)	746 cps
In 230.606 (ETA AQ-Axial-iFR)	334 cps
Ni 231.604 (ETA AQ-Axial-iFR)	316 cps
Mn 257.610 (ETA AQ-Radial-iFR)	1,607 cps
Fe 259.940 (ETA AQ-Axial-iFR)	47,277 cps
Cr 267.716 (ETA AQ-Axial-iFR)	911 cps
Fe 271.441 (ETA AQ-Radial-iFR)	701 cps
Mg 279.079 (ETA AQ-Radial-iFR)	1,661 cps
Si 288.158 (ETA AQ-Radial-iFR)	642 cps
V 292.402 (ETA AQ-Axial-iFR)	1,300 cps
Al 308.215 (ETA AQ-Radial-iFR)	1,795 cps
Be 313.042 (ETA AQ-Radial-iFR)	8,431 cps
Ca 317.933 (ETA AQ-Radial-iFR)	8,952 cps
Cu 327.396 (ETA AQ-Axial-iFR)	1,348 cps
Ag 328.068 (ETA AQ-Axial-iFR)	2,153 cps
Ti 334.904 (ETA AQ-Axial-iFR)	2,125 cps
Ti 334.941 (ETA AQ-Axial-iFR)	5,919 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,546 cps
Y 360.073 (ETA AQ-Radial-iFR)	934 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,338 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,294 cps
Sr 407.771 (ETA AQ-Radial-iFR)	19,306 cps
Ba 455.403 (ETA AQ-Radial-iFR)	9,287 cps
Na 589.592 (ETA AQ-Radial-iFR)	16,475 cps
Li 670.784 (ETA AQ-Radial-iFR)	1,322 cps
K 766.490 (ETA AQ-Radial-iFR)	3,640 cps
Na 818.326 (ETA AQ-Radial-iFR)	437 cps

Label: CCB-8122474 #: 59
Analysis Type: QC Analysis started at: 10/29/2024 5:37:39 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.069 ppm	6.861 %
As 189.042 (ETA AQ-Axial-iFR)	0.005 ppm	0.461 %
Sn 189.989 (ETA AQ-Axial-iFR)	-0.004 ppm	-0.359 %
Tl 190.856 (ETA AQ-Axial-iFR)	-0.003 ppm	-0.274 %
Se 196.090 (ETA AQ-Axial-iFR)	-0.002 ppm	-0.225 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.000 ppm	0.024 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.004 ppm	0.363 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.001 ppm	0.088 %
B 208.959 (ETA AQ-Axial-iFR)	0.013 ppm	1.284 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.244 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.000 ppm	-0.034 %
Y 224.306 (ETA AQ-Axial-iFR)	97.910 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.793 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.000 ppm	0.033 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.000 ppm	-0.006 %
In 230.606 (ETA AQ-Axial-iFR)	97.051 %	
Ni 231.604 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.073 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.000 ppm	0.016 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.000 ppm	0.032 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.001 ppm	0.115 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.019 ppm	1.859 %

Analyte (Measure Mode)	Concentration average	Recovery Percentage
Mg 279.079 (ETA AQ-Radial-iFR)	-0.008 ppm	-0.821 %
Si 288.158 (ETA AQ-Radial-iFR)	0.037 ppm	3.744 %
V 292.402 (ETA AQ-Axial-iFR)	0.000 ppm	0.031 %
Al 308.215 (ETA AQ-Radial-iFR)	0.016 ppm	1.568 %
Be 313.042 (ETA AQ-Radial-iFR)	0.000 ppm	0.009 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.005 ppm	0.457 %
Cu 327.396 (ETA AQ-Axial-iFR)	-0.001 ppm	-0.051 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.001 ppm	0.079 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.001 ppm	0.091 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.000 ppm	0.027 %
Y 360.073 (ETA AQ-Axial-iFR)	97.337 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.858 %	
Y 377.433 (ETA AQ-Axial-iFR)	97.471 %	
Y 377.433 (ETA AQ-Radial-iFR)	97.781 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.000 ppm	-0.008 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.000 ppm	-0.029 %
Na 589.592 (ETA AQ-Radial-iFR)	0.115 ppm	11.545 %
Li 670.784 (ETA AQ-Radial-iFR)	-0.001 ppm	-0.128 %
K 766.490 (ETA AQ-Radial-iFR)	0.029 ppm	2.867 %
Na 818.326 (ETA AQ-Radial-iFR)	-0.053 ppm	-5.341 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	5 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps
Sn 189.989 (ETA AQ-Axial-iFR)	-1 cps
Tl 190.856 (ETA AQ-Axial-iFR)	-1 cps
Se 196.090 (ETA AQ-Axial-iFR)	1 cps
Mo 202.030 (ETA AQ-Axial-iFR)	1 cps
Zn 206.200 (ETA AQ-Axial-iFR)	2 cps
Sb 206.833 (ETA AQ-Axial-iFR)	0 cps
B 208.959 (ETA AQ-Axial-iFR)	5 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	0 cps
Y 224.306 (ETA AQ-Axial-iFR)	346 cps
Y 224.306 (ETA AQ-Radial-iFR)	92 cps
Co 228.616 (ETA AQ-Axial-iFR)	-2 cps
Cd 228.802 (ETA AQ-Axial-iFR)	2 cps
In 230.606 (ETA AQ-Axial-iFR)	329 cps
Ni 231.604 (ETA AQ-Axial-iFR)	-1 cps
Mn 257.610 (ETA AQ-Radial-iFR)	0 cps
Fe 259.940 (ETA AQ-Axial-iFR)	7 cps
Cr 267.716 (ETA AQ-Axial-iFR)	2 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	0 cps
Si 288.158 (ETA AQ-Radial-iFR)	4 cps
V 292.402 (ETA AQ-Axial-iFR)	-1 cps
Al 308.215 (ETA AQ-Radial-iFR)	1 cps
Be 313.042 (ETA AQ-Radial-iFR)	2 cps
Ca 317.933 (ETA AQ-Radial-iFR)	5 cps
Cu 327.396 (ETA AQ-Axial-iFR)	0 cps
Ag 328.068 (ETA AQ-Axial-iFR)	-1 cps
Ti 334.904 (ETA AQ-Axial-iFR)	-5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	10 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,668 cps
Y 360.073 (ETA AQ-Radial-iFR)	938 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,542 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,303 cps
Sr 407.771 (ETA AQ-Radial-iFR)	-4 cps

Analyte (Measure Mode)	Raw Intensity average
Ba 455.403 (ETA AQ-Radial-iFR)	-2 cps
Na 589.592 (ETA AQ-Radial-iFR)	31 cps
Li 670.784 (ETA AQ-Radial-iFR)	-4 cps
K 766.490 (ETA AQ-Radial-iFR)	4 cps
Na 818.326 (ETA AQ-Radial-iFR)	3 cps

Label: CCVL-8122384 #: 60
Analysis Type: QC Analysis started at: 10/29/2024 5:39:33 PM

Amount: Final Quantity: Standard DF: 1

Analyte (Measure Mode)	Concentration average	Recovery Percentage
S 182.034 (ETA AQ-Axial-iFR)	0.262 ppm	130.949 %
As 189.042 (ETA AQ-Axial-iFR)	0.016 ppm	107.507 %
Sn 189.989 (ETA AQ-Axial-iFR)	0.006 ppm	64.511 %
Tl 190.856 (ETA AQ-Axial-iFR)	0.016 ppm	82.323 %
Se 196.090 (ETA AQ-Axial-iFR)	0.018 ppm	70.308 %
Mo 202.030 (ETA AQ-Axial-iFR)	0.008 ppm	84.014 %
Zn 206.200 (ETA AQ-Axial-iFR)	0.010 ppm	102.293 %
Sb 206.833 (ETA AQ-Axial-iFR)	0.015 ppm	76.686 %
B 208.959 (ETA AQ-Axial-iFR)	0.029 ppm	143.620 %
P 213.618 (ETA AQ-Axial-iFR)	0.002 ppm	0.000 %
Pb 220.353 (ETA AQ-Axial-iFR)	0.012 ppm	121.961 %
Y 224.306 (ETA AQ-Axial-iFR)	97.779 %	
Y 224.306 (ETA AQ-Radial-iFR)	97.651 %	
Co 228.616 (ETA AQ-Axial-iFR)	0.004 ppm	104.819 %
Cd 228.802 (ETA AQ-Axial-iFR)	0.002 ppm	100.104 %
In 230.606 (ETA AQ-Axial-iFR)	97.153 %	
Ni 231.604 (ETA AQ-Axial-iFR)	0.010 ppm	97.240 %
Mn 257.610 (ETA AQ-Radial-iFR)	0.003 ppm	94.452 %
Fe 259.940 (ETA AQ-Axial-iFR)	0.047 ppm	93.154 %
Cr 267.716 (ETA AQ-Axial-iFR)	0.005 ppm	116.729 %
Fe 271.441 (ETA AQ-Radial-iFR)	0.043 ppm	85.008 %
Mg 279.079 (ETA AQ-Radial-iFR)	0.206 ppm	103.234 %
Si 288.158 (ETA AQ-Radial-iFR)	0.500 ppm	99.959 %
V 292.402 (ETA AQ-Axial-iFR)	0.005 ppm	105.157 %
Al 308.215 (ETA AQ-Radial-iFR)	0.164 ppm	82.146 %
Be 313.042 (ETA AQ-Radial-iFR)	0.002 ppm	101.299 %
Ca 317.933 (ETA AQ-Radial-iFR)	0.477 ppm	95.428 %
Cu 327.396 (ETA AQ-Axial-iFR)	0.009 ppm	87.130 %
Ag 328.068 (ETA AQ-Axial-iFR)	0.006 ppm	105.229 %
Ti 334.904 (ETA AQ-Axial-iFR)	0.005 ppm	104.620 %
Ti 334.941 (ETA AQ-Axial-iFR)	0.005 ppm	94.826 %
Y 360.073 (ETA AQ-Axial-iFR)	96.845 %	
Y 360.073 (ETA AQ-Radial-iFR)	97.918 %	
Y 377.433 (ETA AQ-Axial-iFR)	97.050 %	
Y 377.433 (ETA AQ-Radial-iFR)	98.070 %	
Sr 407.771 (ETA AQ-Radial-iFR)	0.005 ppm	95.981 %
Ba 455.403 (ETA AQ-Radial-iFR)	0.002 ppm	93.969 %
Na 589.592 (ETA AQ-Radial-iFR)	1.105 ppm	110.480 %
Li 670.784 (ETA AQ-Radial-iFR)	0.029 ppm	95.398 %
K 766.490 (ETA AQ-Radial-iFR)	0.556 ppm	111.117 %
Na 818.326 (ETA AQ-Radial-iFR)	0.911 ppm	91.086 %

Analyte (Measure Mode)	Raw Intensity average
S 182.034 (ETA AQ-Axial-iFR)	10 cps
As 189.042 (ETA AQ-Axial-iFR)	0 cps

Analyte (Measure Mode)	Raw Intensity average
Sn 189.989 (ETA AQ-Axial-iFR)	0 cps
Tl 190.856 (ETA AQ-Axial-iFR)	0 cps
Se 196.090 (ETA AQ-Axial-iFR)	2 cps
Mo 202.030 (ETA AQ-Axial-iFR)	3 cps
Zn 206.200 (ETA AQ-Axial-iFR)	6 cps
Sb 206.833 (ETA AQ-Axial-iFR)	1 cps
B 208.959 (ETA AQ-Axial-iFR)	9 cps
P 213.618 (ETA AQ-Axial-iFR)	-4 cps
Pb 220.353 (ETA AQ-Axial-iFR)	1 cps
Y 224.306 (ETA AQ-Axial-iFR)	346 cps
Y 224.306 (ETA AQ-Radial-iFR)	92 cps
Co 228.616 (ETA AQ-Axial-iFR)	0 cps
Cd 228.802 (ETA AQ-Axial-iFR)	4 cps
In 230.606 (ETA AQ-Axial-iFR)	330 cps
Ni 231.604 (ETA AQ-Axial-iFR)	3 cps
Mn 257.610 (ETA AQ-Radial-iFR)	4 cps
Fe 259.940 (ETA AQ-Axial-iFR)	52 cps
Cr 267.716 (ETA AQ-Axial-iFR)	5 cps
Fe 271.441 (ETA AQ-Radial-iFR)	0 cps
Mg 279.079 (ETA AQ-Radial-iFR)	7 cps
Si 288.158 (ETA AQ-Radial-iFR)	33 cps
V 292.402 (ETA AQ-Axial-iFR)	6 cps
Al 308.215 (ETA AQ-Radial-iFR)	6 cps
Be 313.042 (ETA AQ-Radial-iFR)	19 cps
Ca 317.933 (ETA AQ-Radial-iFR)	92 cps
Cu 327.396 (ETA AQ-Axial-iFR)	13 cps
Ag 328.068 (ETA AQ-Axial-iFR)	11 cps
Ti 334.904 (ETA AQ-Axial-iFR)	5 cps
Ti 334.941 (ETA AQ-Axial-iFR)	37 cps
Y 360.073 (ETA AQ-Axial-iFR)	4,645 cps
Y 360.073 (ETA AQ-Radial-iFR)	938 cps
Y 377.433 (ETA AQ-Axial-iFR)	6,514 cps
Y 377.433 (ETA AQ-Radial-iFR)	1,307 cps
Sr 407.771 (ETA AQ-Radial-iFR)	90 cps
Ba 455.403 (ETA AQ-Radial-iFR)	18 cps
Na 589.592 (ETA AQ-Radial-iFR)	356 cps
Li 670.784 (ETA AQ-Radial-iFR)	36 cps
K 766.490 (ETA AQ-Radial-iFR)	43 cps
Na 818.326 (ETA AQ-Radial-iFR)	11 cps

METALS BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Batch Number: 730151 Batch Start Date: 10/29/24 08:45 Batch Analyst: O'Brien, Emily M

Batch Method: 3005A Batch End Date: 10/29/24 12:03

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MED_03_Ag 00213	MEP_Mix4 00012	Spike Mx 1 00006	Spike Mx 2 00005
MB 480-730151/1		3005A, 6010D			50 mL	50 mL				
LCS 480-730151/2		3005A, 6010D			50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-224872-C-3	EFF-102324	3005A, 6010D	Water	R	50 mL	50 mL				
480-224872-C-3 MS	EFF-102324	3005A, 6010D		R	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-224872-C-3 MSD	EFF-102324	3005A, 6010D		R	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	Spike Mx 3 00005					
MB 480-730151/1		3005A, 6010D								
LCS 480-730151/2		3005A, 6010D			0.25 mL					
480-224872-C-3	EFF-102324	3005A, 6010D	Water	R						
480-224872-C-3 MS	EFF-102324	3005A, 6010D		R	0.25 mL					
480-224872-C-3 MSD	EFF-102324	3005A, 6010D		R	0.25 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.: 480-224872-1

SDG No.:

Batch Number: 730151 Batch Start Date: 10/29/24 08:45 Batch Analyst: O'Brien, Emily M

Batch Method: 3005A Batch End Date: 10/29/24 12:03

Batch Notes	
Digestion Tube/Cup ID	LV24061004
Pipette/Syringe/Dispenser ID	MDL-1
Analyst ID - Spike Analyst	EO
Hydrochloric Acid ID	8080738
Nitric Acid ID	8131328
Digestion Unit ID	A
Thermometer ID	211049591
Thermometer Location ID	C4
Temperature - Uncorrected - Start	93.1 Degrees C
Temperature - Corrected - Start	93.2 Degrees C
Digestion Start Time	10/29/2024 08:45
Digestion End Time	10/29/2024 12:03
Temperature - Uncorrected - End	97.8 Degrees C
Temperature - Corrected - End	97.9 Degrees C

Basis	Basis Description
R	Total Recoverable

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: 480-224872-1

SDG No.:

Project: SMC Lewiston - Annual

Client Sample ID	Lab Sample ID
EFF-102324	480-224872-3

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: EFF-102324 | Lab Sample ID: 480-224872-3

Lab Name: Eurofins Buffalo | Job No.: 480-224872-1

SDG ID.:

Matrix: Water | Date Sampled: 10/23/2024 11:05

Reporting Basis: WET | Date Received: 10/25/2024 11:45

Preparation Batch Number: | Instrument ID: Skalar_San+

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Phenolics, Total Recoverable	0.0035	0.010	0.0035	mg/L	U		1	420.4

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Analyst: CLT Batch Start Date: 10/31/2024

Reporting Units: mg/L Analytical Batch No.: 730714

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	ICV	08:44	Phenolics, Total Recoverable	0.105	0.100	105	90-110		Phenol ICV_00781
11	ICB	08:47	Phenolics, Total Recoverable	0.0035				U	
14	CCV	08:59	Phenolics, Total Recoverable	0.101	0.100	101	90-110		WC_Phenol_CCV_00926
15	CCB	09:02	Phenolics, Total Recoverable	0.0035				U	
27	CCV	09:46	Phenolics, Total Recoverable	0.101	0.100	101	90-110		WC_Phenol_CCV_00926
28	CCB	09:50	Phenolics, Total Recoverable	0.0035				U	
42	CCV	10:42	Phenolics, Total Recoverable	0.101	0.100	101	90-110		WC_Phenol_CCV_00926
43	CCB	10:45	Phenolics, Total Recoverable	0.0035				U	
57	CCV	11:37	Phenolics, Total Recoverable	0.0982	0.100	98	90-110		WC_Phenol_CCV_00926
58	CCB	11:40	Phenolics, Total Recoverable	0.0035				U	

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.: 480-224872-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 730714 Date: 10/31/2024 09:06							
420.4	MB 480-730714/16	Phenolics, Total Recoverable	0.0035	U	mg/L	0.010	1
Batch ID: 730714 Date: 10/31/2024 10:56							
420.4	MB 480-730714/46	Phenolics, Total Recoverable	0.0035	U	mg/L	0.010	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730714 Date: 10/31/2024 10:04											
420.4	480-224840-L-12	Phenolics, Total Recoverable	0.0035	U	mg/L						
420.4	480-224840-L-12 MS	Phenolics, Total Recoverable	0.100		mg/L	0.100	100	90-110			

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.: 480-224872-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730714 Date: 10/31/2024 10:08											
420.4	480-224840-L-12 MSD	Phenolics, Total Recoverable	0.101		mg/L	0.100	101	90-110	1	20	

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.: 480-224872-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 730714 Date: 10/31/2024 11:07								
420.4		480-224891-L-2	Phenolics, Total Recoverable	0.0035	mg/L			U
420.4		480-224891-L-2 DU	Phenolics, Total Recoverable	0.0035	mg/L	NC	20	U

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.: 480-224872-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 730714 Date: 10/31/2024 09:09											
						LCS Source: WC_Phenol_CCV_00926					
420.4	LCS 480-730714/17	Phenolics, Total Recoverable	0.102		mg/L	0.100	102	90-110			
Batch ID: 730714 Date: 10/31/2024 10:59											
						LCS Source: WC_Phenol_CCV_00926					
420.4	LCS 480-730714/47	Phenolics, Total Recoverable	0.101		mg/L	0.100	101	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: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 MDL Date: 07/30/2019 13:22

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job Number: 480-224872-1

SDG Number:

Matrix: Water Instrument ID: Skalar_San+

Method: 420.4 XMDL Date: 07/30/2019 13:21

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Phenolics, Total Recoverable		0.01	0.0035

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 10/31/2024 08:09 End Date: 10/31/2024 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT_																			
ZZZZZZ			08:09																				
ZZZZZZ			08:12																				
ZZZZZZ			08:18																				
IC 480-730714/4			08:23	X																			
IC 480-730714/5			08:25	X																			
IC 480-730714/6			08:29	X																			
IC 480-730714/7			08:33	X																			
IC 480-730714/8			08:36	X																			
IC 480-730714/9			08:40	X																			
ICV 480-730714/10	1		08:44	X																			
ICB 480-730714/11	1		08:47	X																			
ZZZZZZ			08:51																				
ZZZZZZ			08:54																				
CCV 480-730714/14	1		08:59	X																			
CCB 480-730714/15	1		09:02	X																			
MB 480-730714/16	1	T	09:06	X																			
LCS 480-730714/17	1	T	09:09	X																			
ZZZZZZ (Client)			09:13																				
ZZZZZZ (QC)			09:17																				
ZZZZZZ (QC)			09:20																				
ZZZZZZ (Client)			09:24																				
ZZZZZZ (Client)			09:28																				
ZZZZZZ (Client)			09:31																				
ZZZZZZ (Client)			09:35																				
ZZZZZZ (Client)			09:39																				
ZZZZZZ			09:42																				
CCV 480-730714/27	1		09:46	X																			
CCB 480-730714/28	1		09:50	X																			
ZZZZZZ			09:53																				
ZZZZZZ			09:57																				
ZZZZZZ (Client)			10:01																				
480-224840-L-12 MS	1	T	10:04	X																			
480-224840-L-12 MSD	1	T	10:08	X																			
ZZZZZZ (Client)			10:12																				
ZZZZZZ (Client)			10:15																				
ZZZZZZ (Client)			10:20																				
ZZZZZZ (Client)			10:23																				
ZZZZZZ (Client)			10:27																				
480-224872-3	1	T	10:31	X																			
ZZZZZZ (Client)			10:34																				
ZZZZZZ			10:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 10/31/2024 08:09 End Date: 10/31/2024 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT_																			
CCV 480-730714/42	1		10:42	X																			
CCB 480-730714/43	1		10:45	X																			
ZZZZZZ			10:48																				
ZZZZZZ			10:52																				
MB 480-730714/46	1	T	10:56	X																			
LCS 480-730714/47	1	T	10:59	X																			
ZZZZZZ (Client)			11:03																				
480-224891-L-2 DU	1	T	11:07	X																			
ZZZZZZ (Client)			11:10																				
ZZZZZZ (QC)			11:14																				
ZZZZZZ (Client)			11:17																				
ZZZZZZ (Client)			11:21																				
ZZZZZZ (Client)			11:25																				
ZZZZZZ (Client)			11:28																				
ZZZZZZ			11:32																				
CCV 480-730714/57	1		11:37	X																			
CCB 480-730714/58	1		11:40	X																			
ZZZZZZ			11:43																				
ZZZZZZ			11:47																				
ZZZZZZ (Client)			11:51																				
ZZZZZZ (QC)			11:54																				
ZZZZZZ (Client)			11:58																				
ZZZZZZ (QC)			12:02																				
ZZZZZZ (Client)			12:05																				
ZZZZZZ (Client)			12:09																				
ZZZZZZ (Client)			12:13																				
ZZZZZZ (Client)			12:16																				
ZZZZZZ (Client)			12:20																				
ZZZZZZ (Client)			12:24																				
ZZZZZZ			12:27																				
CCV 480-730714/72			12:32																				
CCB 480-730714/73			12:35																				
ZZZZZZ			12:38																				
ZZZZZZ			12:42																				
ZZZZZZ (QC)			12:47																				
ZZZZZZ (QC)			12:49																				
ZZZZZZ (Client)			12:53																				
ZZZZZZ (QC)			12:57																				
ZZZZZZ (Client)			13:00																				
ZZZZZZ (QC)			13:04																				
ZZZZZZ (Client)			13:08																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 10/31/2024 08:09 End Date: 10/31/2024 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT_																			
ZZZZZZ (Client)			13:11																				
ZZZZZZ (Client)			13:15																				
ZZZZZZ (Client)			13:19																				
ZZZZZZ			13:22																				
CCV 480-730714/87			13:26																				
CCB 480-730714/88			13:30																				
ZZZZZZ			13:33																				
ZZZZZZ			13:37																				
ZZZZZZ (Client)			13:42																				
ZZZZZZ (Client)			13:44																				
ZZZZZZ (QC)			13:48																				
ZZZZZZ (QC)			13:52																				
ZZZZZZ (Client)			13:55																				
ZZZZZZ (Client)			13:59																				
ZZZZZZ (Client)			14:03																				
ZZZZZZ (Client)			14:06																				
ZZZZZZ (Client)			14:10																				
ZZZZZZ (Client)			14:14																				
ZZZZZZ			14:17																				
CCV 480-730714/102			14:21																				
CCB 480-730714/103			14:25																				
ZZZZZZ			14:28																				
ZZZZZZ			14:32																				
ZZZZZZ (QC)			14:37																				
ZZZZZZ (QC)			14:39																				
ZZZZZZ (Client)			14:43																				
ZZZZZZ (QC)			14:47																				
ZZZZZZ (QC)			14:51																				
ZZZZZZ (Client)			14:54																				
ZZZZZZ (Client)			14:58																				
ZZZZZZ (Client)			15:02																				
ZZZZZZ (Client)			15:06																				
ZZZZZZ (Client)			15:10																				
ZZZZZZ			15:13																				
CCV 480-730714/117			15:16																				
CCB 480-730714/118			15:20																				
ZZZZZZ			15:24																				
ZZZZZZ			15:27																				
ZZZZZZ (Client)			15:31																				
ZZZZZZ (QC)			15:34																				
ZZZZZZ (Client)			15:38																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Instrument ID: Skalar_San+ Method: 420.4

Start Date: 10/31/2024 08:09 End Date: 10/31/2024 15:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				PhenT_																			
CCV 480-730714/124			15:42																				
CCB 480-730714/125			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				

Prep Types

T = Total/NA

CT 10-31-24

730714 CT 10-31-24

Solutions Used: Skalar Scan+

TOTAL RECOVERABLE PHENOLICS

Intermediate at 10 ppm ricca	8139677	EXP: 11/05/2024
Intermediate at 10 ppm ricca (2^{nd} source)	8139678	EXP: 11/05/2024
CCV/LCS at 0.1 ppm	8143058	EXP: 11/01/2024
4-Aminoantipyrene	8143040	EXP: 11/01/2024
Potassium Ferricyanide	8139751	EXP: 11/05/2024
Distillation Reagent	8139737	EXP: 11/05/2024
3M NaOH (WISC samples only)	7951862	EXP: 12/03/2024

LCS/CCV/MS/MSD = 0.1 ppm

Skalar: Curve - 8139677

ICV at 0.1 ppm – 8143059 **EXP:** 11/01/2024

Samples Checked for headspace: CT
NCM applied to these samples: CT
Wisconsin samples pH adjusted: N/A

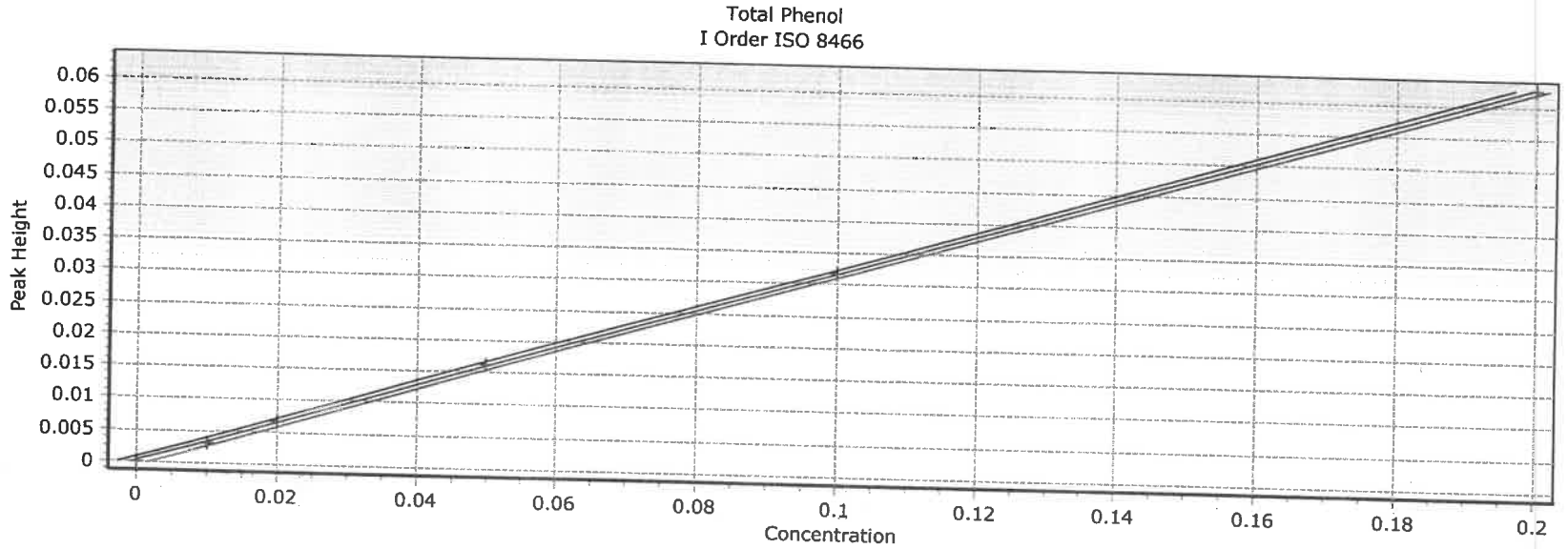
CT 10-31-24

730718Y

CT 10-31-24

FlowAccessV3

Date:2024-10-31 15:59:22



a = 0.00015739838710 b = 0.31326370967742 RSD = 0.00021424436700

r = 0.99996766974615 R2 = 0.99993534053754

Run Name : TABUF20241031A1PHE1031202, Run Db Ref : TABUF20241031A1

User Name : Administrator Operator Name : Administrator

CT 10-31-24

730714

FlowAccessV3 Results Report

Run Name : TABUF20241031A1PHE10312024B, Run Database Ref : TABUF20241031A1
DateTime :2024-10-31 07:56:49
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Phenol-Results[ppm]	Total Phenol-CorrectedHeight	Total Phenol-PeakPickingTime	Total Phenol-RawResults
1	IW	IW	InitialWash		1.0000	-0.0005	0.0000	2024-10-31 08:09:00	-0.0005
2	ST1	T	Tracer		1.0000	0.1995	0.0627	2024-10-31 08:12:00	0.1995
3	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 08:18:00	-0.0005
4	ST1	S1	0.2		1.0000	0.1996	0.0627	2024-10-31 08:23:00	0.1996
5	ST2	S2	0.1		1.0000	0.1005	0.0317	2024-10-31 08:25:00	0.1005
6	ST3	S3	0.05		1.0000	0.0505	0.0160	2024-10-31 08:29:00	0.0505
7	ST4	S4	0.02		1.0000	0.0206	0.0066	2024-10-31 08:33:00	0.0206
8	ST5	S5	0.01		1.0000	0.0094	0.0031	2024-10-31 08:36:00	0.0094
9	ST6	S6	0.0		1.0000	-0.0006	0.0000	2024-10-31 08:40:00	-0.0006
10	ST7	ICV	ICV		1.0000	0.1048	0.0330	2024-10-31 08:44:00	0.1048
11	ST6	ICB	ICB		1.0000	-0.0009	-0.0001	2024-10-31 08:47:00	-0.0009
12	ST1	D	Drift		1.0000	0.1970	0.0619	2024-10-31 08:51:00	0.1970
13	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 08:54:00	-0.0005
14	ST2	CCV	CCV		1.0000	0.1008	0.0317	2024-10-31 08:59:00	0.1008
15	ST6	CCB	CCB		1.0000	0.0005	0.0003	2024-10-31 09:02:00	0.0005
16	ST6	B	MB		1.0000	-0.0007	-0.0001	2024-10-31 09:06:00	-0.0007
17	ST2	LCS	LCS		1.0000	0.1020	0.0321	2024-10-31 09:09:00	0.1020
18	A1	U	480-224972-e-1		1.0000	0.0024	0.0009	2024-10-31 09:13:00	0.0024
19	A2	U	DU 480-224972-e-1		1.0000	0.0004	0.0003	2024-10-31 09:17:00	0.0004
20	A3	U	MS 480-224972-e-1		1.0000	0.1026	0.0323	2024-10-31 09:20:00	0.1026
21	A4	U	480-224842-y-2	2ml → 10 ml	5.0000	0.0223	0.0016	2024-10-31 09:24:00	0.0045
22	A5	U	480-224846-i-1		1.0000	0.0109	0.0036	2024-10-31 09:28:00	0.0109
23	A6	U	480-224847-i-1	2ml → 10ml	5.0000	0.1611	0.0103	2024-10-31 09:31:00	0.0322
24	A7	U	480-224847-i-1	1 ml → 10 ml	10.0000	0.1835	0.0059	2024-10-31 09:35:00	0.0184
25	A8	U	480-224840-i-11		1.0000	0.0014	0.0006	2024-10-31 09:39:00	0.0014
26	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 09:42:00	-0.0005
27	ST2	CCV	CCV		1.0000	0.1011	0.0318	2024-10-31 09:46:00	0.1011

DateTime :2024-10-31 15:59:49

Run Name : TABUF20241031A1PHE10312024B, Run Database Ref : TABUF20241031A1
DateTime :2024-10-31 07:56:49
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Phenol-Results[ppm]	Total Phenol-CorrectedHeight	Total Phenol-PeakPickingTime	Total Phenol-RawResults
28	ST6	CCB	CCB		1.0000	-0.0001	0.0001	2024-10-31 09:50:00	-0.0001
29	ST1	D	Drift		1.0000	0.1981	0.0622	2024-10-31 09:53:00	0.1981
30	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 09:57:00	-0.0005
31	A9	U	480-224840-l-12		1.0000	0.0000	0.0002	2024-10-31 10:01:00	0.0000
32	A10	U	480-224840-l-12 ms		1.0000	0.1002	0.0316	2024-10-31 10:04:00	0.1002
33	A11	U	480-224840-l-12 msd		1.0000	0.1014	0.0319	2024-10-31 10:08:00	0.1014
34	A12	U	480-224840-l-13		1.0000	0.0007	0.0004	2024-10-31 10:12:00	0.0007
35	A13	U	480-224840-l-14		1.0000	0.8712	0.2731	2024-10-31 10:15:00	0.8712
36	A14	U	480-224840-l-15		1.0000	0.0015	0.0006	2024-10-31 10:20:00	0.0015
37	A15	U	480-224862-s-1		1.0000	-0.0008	-0.0001	2024-10-31 10:23:00	-0.0008
38	A16	U	480-224863-s-1		1.0000	-0.0009	-0.0001	2024-10-31 10:27:00	-0.0009
39	A17	U	480-224872-e-3		1.0000	-0.0006	0.0000	2024-10-31 10:31:00	-0.0006
40	A18	U	480-224891-l-1		1.0000	0.0003	0.0002	2024-10-31 10:34:00	0.0003
41	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 10:38:00	-0.0005
42	ST2	CCV	CCV		1.0000	0.1010	0.0318	2024-10-31 10:42:00	0.1010
43	ST6	CCB	CCB		1.0000	0.0007	0.0004	2024-10-31 10:45:00	0.0007
44	ST1	D	Drift		1.0000	0.1978	0.0621	2024-10-31 10:48:00	0.1978
45	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 10:52:00	-0.0005
46	ST6	B	MB		1.0000	-0.0005	0.0000	2024-10-31 10:56:00	-0.0005
47	ST2	LCS	LCS		1.0000	0.1014	0.0319	2024-10-31 10:59:00	0.1014
48	A19	U	480-224891-l-2		1.0000	0.0014	0.0006	2024-10-31 11:03:00	0.0014
49	A20	U	DU 480-224891-l-2		1.0000	0.0000	0.0002	2024-10-31 11:07:00	0.0000
50	A21	U	480-224891-l-3		1.0000	-0.0001	0.0001	2024-10-31 11:10:00	-0.0001
51	A22	U	MS 480-224891-l-3		1.0000	0.1007	0.0317	2024-10-31 11:14:00	0.1007
52	A23	U	480-224891-m-4		1.0000	0.0005	0.0003	2024-10-31 11:17:00	0.0005
53	A24	U	480-224891-l-5		1.0000	0.0011	0.0005	2024-10-31 11:21:00	0.0011
54	A25	U	480-224891-l-6		1.0000	0.0005	0.0003	2024-10-31 11:25:00	0.0005

FlowAccessV3 Results Report

Run Name : TABUF20241031A1PHE10312024B, Run Database Ref : TABUF20241031A1
DateTime :2024-10-31 07:56:49
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Phenol-Results[ppm]	Total Phenol-CorrectedHeight	Total Phenol-PeakPickingTime	Total Phenol-RawResults
55	A26	U	480-224891-I-7		1.0000	0.0001	0.0002	2024-10-31 11:28:00	0.0001
56	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 11:32:00	-0.0005
57	ST8	CCV	CCV		1.0000	0.0982	0.0309	2024-10-31 11:37:00	0.0982
58	ST9	CCB	CCB		1.0000	0.0007	0.0004	2024-10-31 11:40:00	0.0007
59	ST10	D	Drift		1.0000	0.1996	0.0627	2024-10-31 11:43:00	0.1996
60	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 11:47:00	-0.0005
61	A27	U	480-224891-I-8		1.0000	-0.0005	0.0000	2024-10-31 11:51:00	-0.0005
62	A28	U	DU 480-224891-I-8		1.0000	0.0003	0.0003	2024-10-31 11:54:00	0.0003
63	A29	U	480-224891-I-9		1.0000	0.0013	0.0006	2024-10-31 11:58:00	0.0013
64	A30	U	MS 480-224891-I-9		1.0000	0.1000	0.0315	2024-10-31 12:02:00	0.1000
65	A31	U	480-224891-I-10		1.0000	0.0011	0.0005	2024-10-31 12:05:00	0.0011
66	A32	U	480-224891-i-11		1.0000	0.0011	0.0005	2024-10-31 12:09:00	0.0011
67	A33	U	480-224902-m-1		1.0000	-0.0007	-0.0001	2024-10-31 12:13:00	-0.0007
68	A34	U	480-224902-n-2		1.0000	0.0012	0.0005	2024-10-31 12:16:00	0.0012
69	A35	U	480-224902-m-3		1.0000	-0.0003	0.0001	2024-10-31 12:20:00	-0.0003
70	A36	U	480-224902-n-4		1.0000	0.0006	0.0003	2024-10-31 12:24:00	0.0006
71	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 12:27:00	-0.0005
72	ST8	CCV	CCV		1.0000	0.0983	0.0309	2024-10-31 12:32:00	0.0983
73	ST9	CCB	CCB		1.0000	-0.0006	0.0000	2024-10-31 12:35:00	-0.0006
74	ST10	D	Drift		1.0000	0.1958	0.0615	2024-10-31 12:38:00	0.1958
75	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 12:42:00	-0.0005
76	ST9	B	MB		1.0000	-0.0004	0.0000	2024-10-31 12:47:00	-0.0004
77	ST8	LCS	LCS		1.0000	0.0978	0.0308	2024-10-31 12:49:00	0.0978
78	A37	U	480-224902-n-5		1.0000	-0.0003	0.0001	2024-10-31 12:53:00	-0.0003
79	A38	U	DU 480-224902-n-5		1.0000	-0.0005	0.0000	2024-10-31 12:57:00	-0.0005
80	A39	U	480-224902-m-6		1.0000	-0.0008	-0.0001	2024-10-31 13:00:00	-0.0008
81	A40	U	MS 480-224902-m-6		1.0000	0.0995	0.0313	2024-10-31 13:04:00	0.0995

DateTime :2024-10-31 15:59:49

Run Name : TABUF20241031A1PHE10312024B, Run Database Ref : TABUF20241031A1
DateTime :2024-10-31 07:56:49
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Phenol-Results[ppm]	Total Phenol-CorrectedHeight	Total Phenol-PeakPickingTime	Total Phenol-RawResults
82	A41	U	480-224902-n-7		1.0000	-0.0004	0.0000	2024-10-31 13:08:00	-0.0004
83	A42	U	480-224902-n-8		1.0000	0.0019	0.0008	2024-10-31 13:11:00	0.0019
84	A43	U	480-224902-n-9		1.0000	-0.0011	-0.0002	2024-10-31 13:15:00	-0.0011
85	A44	U	480-224902-m-10		1.0000	-0.0003	0.0001	2024-10-31 13:19:00	-0.0003
86	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 13:22:00	-0.0005
87	ST8	CCV	CCV		1.0000	0.0955	0.0301	2024-10-31 13:26:00	0.0955
88	ST9	CCB	CCB		1.0000	-0.0003	0.0001	2024-10-31 13:30:00	-0.0003
89	ST10	D	Drift		1.0000	0.1950	0.0613	2024-10-31 13:33:00	0.1950
90	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 13:37:00	-0.0005
91	A45	U	480-224902-n-11		1.0000	0.0000	0.0002	2024-10-31 13:42:00	0.0000
92	A46	U	480-224902-m-12		1.0000	0.0076	0.0025	2024-10-31 13:44:00	0.0076
93	A47	U	480-224902-n-12 ms		1.0000	0.1000	0.0315	2024-10-31 13:48:00	0.1000
94	A48	U	480-224902-m-12 msd		1.0000	0.1018	0.0320	2024-10-31 13:52:00	0.1018
95	A49	U	480-224902-n-13		1.0000	0.0047	0.0016	2024-10-31 13:55:00	0.0047
96	A50	U	480-224902-m-14		1.0000	0.0011	0.0005	2024-10-31 13:59:00	0.0011
97	A51	U	480-224963-i-1		1.0000	0.0009	0.0005	2024-10-31 14:03:00	0.0009
98	A52	U	480-224963-i-2		1.0000	0.0030	0.0011	2024-10-31 14:06:00	0.0030
99	A53	U	480-224963-i-3		1.0000	0.0048	0.0017	2024-10-31 14:10:00	0.0048
100	A54	U	480-224963-i-4		1.0000	0.0014	0.0006	2024-10-31 14:14:00	0.0014
101	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 14:17:00	-0.0005
102	ST8	CCV	CCV		1.0000	0.0976	0.0307	2024-10-31 14:21:00	0.0976
103	ST9	CCB	CCB		1.0000	0.0006	0.0003	2024-10-31 14:25:00	0.0006
104	ST10	D	Drift		1.0000	0.1949	0.0612	2024-10-31 14:28:00	0.1949
105	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 14:32:00	-0.0005
106	ST9	B	MB		1.0000	-0.0008	-0.0001	2024-10-31 14:37:00	-0.0008
107	ST8	LCS	LCS		1.0000	0.0974	0.0307	2024-10-31 14:39:00	0.0974
108	A55	U	480-224843-u-2		1.0000	0.0200	0.0064	2024-10-31 14:43:00	0.0200

FlowAccessV3 Results Report

Run Name : TABUF20241031A1PHE10312024B, Run Database Ref : TABUF20241031A1
DateTime :2024-10-31 07:56:49
User Name : Administrator Operator Name : Administrator

	Position	SampleType	SampleIdentity	Comments	ExternalDilution	Total Phenol-Results[ppm]	Total Phenol-CorrectedHeight	Total Phenol-PeakPickingTime	Total Phenol-RawResults
109	A56	U	DU 480-224843-u-2		1.0000	0.0191	0.0061	2024-10-31 14:47:00	0.0191
110	A57	U	MS 480-224843-u-2		1.0000	0.1192	0.0375	2024-10-31 14:51:00	0.1192
111	A58	U	480-224963-i-5		1.0000	0.0031	0.0011	2024-10-31 14:54:00	0.0031
112	A59	U	480-224842-y-1		1.0000	0.0799	0.0252	2024-10-31 14:58:00	0.0799
113	A60	U	480-224972-e-2		1.0000	0.0027	0.0010	2024-10-31 15:02:00	0.0027
114	B1	U	480-224972-e-3		1.0000	0.0013	0.0006	2024-10-31 15:06:00	0.0013
115	B2	U	480-224972-e-4		1.0000	0.0014	0.0006	2024-10-31 15:10:00	0.0014
116	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 15:13:00	-0.0005
117	ST8	CCV	CCV		1.0000	0.0945	0.0298	2024-10-31 15:16:00	0.0945
118	ST9	CCB	CCB		1.0000	-0.0003	0.0001	2024-10-31 15:20:00	-0.0003
119	ST10	D	Drift		1.0000	0.1875	0.0589	2024-10-31 15:24:00	0.1875
120	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 15:27:00	-0.0005
121	B3	U	480-224840-l-14	2ml ⇒10ml	5.0000	-0.0038	-0.0001	2024-10-31 15:31:00	-0.0008
122	B4	U	MS 480-224840-l-14	&	5.0000	0.4977	0.0313	2024-10-31 15:34:00	0.0995
123	B5	U	480-224840-l-14	1 ml ⇒10ml	10.0000	-0.0120	-0.0002	2024-10-31 15:38:00	-0.0012
124	ST8	CCV	CCV		1.0000	0.0962	0.0303	2024-10-31 15:42:00	0.0962
125	ST9	CCB	CCB		1.0000	0.0001	0.0002	2024-10-31 15:45:00	0.0001
126	ST10	D	Drift		1.0000	0.1877	0.0590	2024-10-31 15:49:00	0.1877
127	WT	W	Wash		1.0000	-0.0005	0.0000	2024-10-31 15:53:00	-0.0005
128	E	E	EndRun		1.0000	-0.0005	0.0000	2024-10-31 15:57:00	-0.0005

DateTime :2024-10-31 15:59:49

Historical Data Summary Report

For Batch 730714

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data Points	Dilution	Result	Fail 3-Sigma Limits	Fail Client Limits
480-224840-L-11	OW-109	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	3	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224840-L-12	OW-110	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	3	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224840-L-13	SW-1	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	7	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224840-L-15	SW-3	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	3	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224842-Y-1	L302	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	6	1.0000	79.9	☐ 0 - 136.997	☐ 0 - 114.72
480-224843-U-2	L304	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	5	1.0000	ND	☐ 0 - 5323.631	☐ 0 - 3684
480-224846-I-1	Midway Tank Compc	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	3	1.0000	10.9	☐ 0 - 19.922	☑ 3.04 - 4.56 leachate
480-224847-I-1	Settlers Hill Tank Co	420.4_NP	Phenolics, Total Recoverable	Total/NA	ug/L	8	5.0000	161	☐ 0 - 1133.474	☐ 56.88 - 1044
480-224891-I-11	Town Park	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	7	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-1	MW-1A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-10	East Ditch	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-2	MW-1B	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-3	MW-2A	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-5	MW-4	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-6	MW-5	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-7	BLIND DUPLICATE	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-8	North Ditch	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-L-9	Park Culvert	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224891-M-4	MW-3	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	8	1.0000	ND	☐ 0 - 0	☐ 0 - 0
480-224963-I-4	SW-3P	420.4_NP	Phenolics, Total Recoverable	Total/NA	mg/L	7	1.0000	ND	☐ 0 - 0	☐ 0 - 0

CT 10-31-24

730718
4

SA1074/ PHE10312024A/ Needle:1

Date : 2024-10-31 06:51:26

Position	Type	Identity	Comments	External dilution factor
ST1	T	Tracer		1.0000
WT	W	Wash		1.0000
ST1	S1	0.2		1.0000
ST2	S2	0.1		1.0000
ST3	S3	0.05		1.0000
ST4	S4	0.02		1.0000
ST5	S5	0.01		1.0000
ST6	S6	0.0		1.0000
ST7	ICV	ICV		1.0000
ST6	ICB	ICB		1.0000
ST1	D	Drift		1.0000
WT	W	Wash		1.0000
ST2	CCV	CCV		1.0000
ST6	CCB	CCB		1.0000
ST6	B	MB		1.0000
ST2	LCS	LCS		1.0000
A1	U	480-224972-e-1		1.0000
A2	U	DU 480-224972-e-1		1.0000
A3	U	MS 480-224972-e-1		1.0000
A4	U	480-224842-y-2		5.0000
A5	U	480-224846-i-1		1.0000
A6	U	480-224847-i-1		5.0000
A7	U	480-224847-i-1		10.0000
A8	U	480-224840-l-11		1.0000
WT	W	Wash		1.0000
ST2	CCV	CCV		1.0000
ST6	CCB	CCB		1.0000
ST1	D	Drift		1.0000
WT	W	Wash		1.0000
A9	U	480-224840-l-12		1.0000
A10	U	480-224840-l-12 ms		1.0000
A11	U	480-224840-l-12 msd		1.0000
A12	U	480-224840-l-13		1.0000
A13	U	480-224840-l-14		1.0000
A14	U	480-224840-l-15		1.0000
A15	U	480-224862-s-1		1.0000
A16	U	480-224863-s-1		1.0000
A17	U	480-224872-e-3		1.0000
A18	U	480-224891-l-1		1.0000
WT	W	Wash		1.0000
ST2	CCV	CCV		1.0000
ST6	CCB	CCB		1.0000
ST1	D	Drift		1.0000
WT	W	Wash		1.0000

PH
1

H

PH
1

H

H = headspace

pH strips - HC450408

Date : 2024-10-31 06:51:26

Position	Type	Identity	Comments	External dilution factor
ST1	T	Tracer		1.0000
ST6	B	MB		1.0000
ST2	LCS	LCS		1.0000
A19	U	480-224891-l-2		1.0000
A20	U	DU 480-224891-l-2		1.0000
A21	U	480-224891-l-3		1.0000
A22	U	MS 480-224891-l-3		1.0000
A23	U	480-224891-m-4		1.0000
A24	U	480-224891-l-5		1.0000
A25	U	480-224891-l-6		1.0000
A26	U	480-224891-l-7		1.0000
WT	W	Wash		1.0000
ST8	CCV	CCV		1.0000
ST9	CCB	CCB		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000
A27	U	480-224891-l-8		1.0000
A28	U	DU 480-224891-l-8		1.0000
A29	U	480-224891-l-9		1.0000
A30	U	MS 480-224891-l-9		1.0000
A31	U	480-224891-l-10		1.0000
A32	U	480-224891-i-11		1.0000
A33	U	480-224902-m-1		1.0000
A34	U	480-224902-n-2		1.0000
A35	U	480-224902-m-3		1.0000
A36	U	480-224902-n-4		1.0000
WT	W	Wash		1.0000
ST8	CCV	CCV		1.0000
ST9	CCB	CCB		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000
ST9	B	MB		1.0000
ST8	LCS	LCS		1.0000
A37	U	480-224902-n-5		1.0000
A38	U	DU 480-224902-n-5		1.0000
A39	U	480-224902-m-6		1.0000
A40	U	MS 480-224902-m-6		1.0000
A41	U	480-224902-n-7		1.0000
A42	U	480-224902-n-8		1.0000
A43	U	480-224902-n-9		1.0000
A44	U	480-224902-m-10		1.0000
WT	W	Wash		1.0000
ST8	CCV	CCV		1.0000
ST9	CCB	CCB		1.0000

Date : 2024-10-31 06:51:26

Position	Type	Identity	Comments	External dilution factor
ST1	T	Tracer		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000
A45	U	480-224902-n-11		1.0000
A46	U	480-224902-m-12		1.0000
A47	U	480-224902-n-12 ms		1.0000
A48	U	480-224902-m-12 msd		1.0000
A49	U	480-224902-n-13		1.0000
A50	U	480-224902-m-14		1.0000
A51	U	480-224963-i-1		1.0000
A52	U	480-224963-i-2		1.0000
A53	U	480-224963-i-3		1.0000
A54	U	480-224963-i-4		1.0000
WT	W	Wash		1.0000
ST8	CCV	CCV		1.0000
ST9	CCB	CCB		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000
ST9	B	MB		1.0000
ST8	LCS	LCS		1.0000
A55	U	480-224843-u-2		1.0000
A56	U	DU 480-224843-u-2		1.0000
A57	U	MS 480-224843-u-2		1.0000
A58	U	480-224963-i-5		1.0000
A59	U	480-224842-y-1		1.0000
A60	U	480-224972-e-2		1.0000
B1	U	480-224972-e-3		1.0000
B2	U	480-224972-e-4		1.0000
WT	W	Wash		1.0000
ST8	CCV	CCV		1.0000
ST9	CCB	CCB		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000
B3	U			1.0000
B4	U			1.0000
B5	U			1.0000
B6	U			1.0000
B7	U			1.0000
B8	U			1.0000
B9	U			1.0000
B10	U			1.0000
B11	U	U		1.0000
B12	U	U		1.0000
ST8	CCV	CCV		1.0000

pH 1

H 1

pH 1

H 7 *

1

1

1

adjusted to 1 w/ H_2SO_4 8058267

Date : 2024-10-31 06:51:26

Position	Type	Identity	Comments	External dilution factor
ST1	T	Tracer		1.0000
ST9	CCB	CCB		1.0000
ST10	D	Drift		1.0000
WT	W	Wash		1.0000

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Buffalo Job No.: 480-224872-1

SDG No.:

Batch Number: 730714 Batch Start Date: 10/31/24 08:09 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Phenol ICV 00781	WC_Phenol_CCV 00926	WC_Phenol10W3 01428	
ICV 480-730714/10		420.4			2 mL	2 mL	# mL			
ICB 480-730714/11		420.4			2 mL	2 mL				
CCV 480-730714/14		420.4			2 mL	2 mL		# mL		
CCB 480-730714/15		420.4			2 mL	2 mL				
MB 480-730714/16		420.4			2 mL	2 mL				
LCS 480-730714/17		420.4			2 mL	2 mL		# mL		
CCV 480-730714/27		420.4			2 mL	2 mL		# mL		
CCB 480-730714/28		420.4			2 mL	2 mL				
480-224840-L-12 MS		420.4		T	2 mL	2 mL			20 uL	
480-224840-L-12 MSD		420.4		T	2 mL	2 mL			20 uL	
480-224872-E-3	EFF-102324	420.4	Water	T	2 mL	2 mL				
CCV 480-730714/42		420.4			2 mL	2 mL		# mL		
CCB 480-730714/43		420.4			2 mL	2 mL				
MB 480-730714/46		420.4			2 mL	2 mL				
LCS 480-730714/47		420.4			2 mL	2 mL		# mL		
480-224891-L-2 DU		420.4		T	2 mL	2 mL				
CCV 480-730714/57		420.4			2 mL	2 mL		# mL		
CCB 480-730714/58		420.4			2 mL	2 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.: 480-224872-1

SDG No.:

Batch Number: 730714 Batch Start Date: 10/31/24 08:09 Batch Analyst: Thomas, Christine L

Batch Method: 420.4 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 TestAmerica, Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

Chain of Custody Record

eurofins
Environment Testing
TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Matt Wenrick	Sampler: Grey first	Date:	COC No: 1 of 5 COCs
Langan Engineering and Environmental Services	Mwenrick@langan.com	Sampler phone: 716 9032795		
2700 Kelly Rd	215-491-6553	Patricia Grieco	Carrier:	TALS Project #:
Warrington,PA, 18976	**Analysis Turnaround Time**			
215-491-6553	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below ____7____			Walk-in Client:
SMC Lewiston	☐ 2 weeks			Lab Sampling:
5715 Old Lewiston Rd,Lewiston,NY	☐ 1 week			
130117301	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260c-VOC Custom List	8270D - SVOC Custom List	6010C-As, Cr, Cu, Pb, Ni, Se, Zn	420.1-Phenolics,Total Recoverable	Sample Specific Notes:
INF- 102324	102324	1055	G	W	3	N	N	x				
CBT- 102324	102324	1100	G	W	3	N	N	x				
EFF- 102324	102324	1105	G	W	8	N	N	x	x	x	x	
EW-1R- 102324	102324	1115	G	W	3	N	N	x				
EW-2-102324	102324	1120	G	W	9	N	Y	x				
EW-2-102324-DUP	102324	1120	G	W	3	N	Y	x				
EW-3-102324	102324	1125	G	W	9	N	Y	x				
EW-3-102324-DUP	102324	1125	G	W	3	N	N	x				
EW-4-102324	102324	1130	G	W	3	N	N	x				
EW-5-102324	102324	1130	G	W	3	N	N	x				
EW-6-102324	102324	1135	G	W	3	N	N	x				
EW-7-102324	102324	1145	G	W	3	N	N	x				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								2		4	3	

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if

☐ Return to Client ☑ Disposal by Lab

480-224872 Chain of Custody

Special Instructions/QC Requirements & Comments:

3.1 ICE IR# 5C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Sevenson	Date/Time: 102524 1145	Received by:	Company:	Date/Time: 10-25-24 1145
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-200543-38260.1
Client Contact: Mr. Matthew Wenrick	Phone: 716 9032795	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page ~~1 of 8~~ 2 of 5
Company: Langan Engineering and Environmental Services LLC	PWSID:			Job #:
Address: 989 Lenox Drive Suite 124	Due Date Requested:			
City: Lawrenceville	TAT Requested (days):			
State, Zip: NJ, 08648	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 130117301			
Email: mwenrick@langan.com	WO #:			
Project Name: SMC Lewiston - Annual	Project #: 48024839			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

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)	8260C - VOC custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
DPA-202-102324	102324	1150	G	Water	N	N	X	3	
LR-66-102324	102324	1155	G	Water	N	N	X	3	
OW-3-102324	102324	1200	G	Water	N	N	X	3	
OW-5-102324	102324	1350	G	Water	N	N	X	3	
W-67L-102324	102324	1406	G	Water	N	N	X	3	
R-67-102324	102324	1414	G	Water	N	N	X	3	
W-67-102324	102324	1423	G	Water	N	N	X	3	
LR-67-102324	102324	1435	G	Water	N	N	X	3	
LR-48-102324	102324	1451	G	Water	N	N	X	3	
R-48-102324	102324	1502	G	Water	N	N	X	3	
W-19B-102324	102324	1529	G	Water	N	N	X	3	

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
		102524 1145	Langan	See pg 1		
	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: 10/10/2024

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: DH	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-200543-38260.4
Client Contact: Mr. Matthew Wenrick	Phone: AIC 9032795	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 3 of 5
Company: Langan Engineering and Environmental Services LLC	PWSID:	Analysis Requested		Job #:
Address: 989 Lenox Drive Suite 124	Due Date Requested:			Preservation Codes: A - HCL
City: Lawrenceville	TAT Requested (days):			
State, Zip: NJ, 08648	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 130117301			Other:
Email: mwenrick@langan.com	WO #:			
Project Name: SMC Lewiston - Annual	Project #: 48024839			
Site: New York	SSOW#:			

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 - VOC custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
R-19-102324	102324	1537	G	Water	N	N	X	3	
LR-61-102424	102424	0854	G	Water	N	N	X	3	
LR-51-102424	102424	0926	G	Water	N	N	X	3	
LR-50-102424	102424	0941	G	Water	N	N	X	3	
R-68-102424	102424	1006	G	Water	N	N	X	3	
LR-16-102424	102424	1040	G	Water	N	N	X	3	
W-16L-102424	102424	1055	G	Water	N	N	X	3	
R-16-102424	102424	1107	G	Water	N	N	X	3	
W-16-102424	102424	1122	G	Water	N	N	X	3	
W-66-102424	102424	1137	G	Water	N	N	X	3	
W-66L-102424	102424	1200	G	Water	N	N	X	3	

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: DH	Date/Time: 102524 1145	Company: Langan	Received by: See pg 1
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by	Date/Time:	Company	Received by

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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: BH	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-200543-38260.4
Client Contact: Mr. Matthew Wenrick	Phone: 716 903 2795	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page 4 of 5
Company: Langan Engineering and Environmental Services LLC	PWSID:			Job #:
Address: 989 Lenox Drive Suite 124	Due Date Requested:			
City: Lawrenceville	TAT Requested (days):			
State, Zip: NJ, 08648	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 130117301			
Email: mwenrick@langan.com	WO #:			
Project Name: SMC Lewiston - Annual	Project #: 48024839			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

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)	8260C - VOC custom List	Total Number of containers
			Preservation Code:				A	
LR-20-102424	102424	1330	G	Water	N	N	X	3
W-20-102424	102424	1335	G	Water	N	N	X	3
LR-49-102424	102424	1346	G	Water	N	N	X	3
W-65-102424	102424	1400	G	Water	N	N	X	3
W-23C-102424	102424	1413	G	Water	N	N	X	3
W-70L-102424	102424	1425	G	Water	N	N	X	3
W-18L-102424	102424	1445	G	Water	N	Y	X	9
W-18R-102424	102424	1515	G	Water	N	N	X	3
LR-62-102424	102424	1530	G	Water	N	N	X	3
R-60-102424	102424	1553	G	Water	N	N	X	3
R-60-102424-DUP	102424	1553	G	Water	N	N	X	3

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: 102524 1145	Company Shannon	Received by: See pg 1	Date/Time:	Company
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: 10/10/2024

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:	Lab PM: Beninati, John	Carrier Tracking No(s):	COC No: 480-200543-38260.5
Client Contact: Mr. Matthew Wenrick	Phone: 716 9032795	E-Mail: John.Beninati@et.eurofinsus.com	State of Origin:	Page: Page ~~6~~ 5 of 5
Company: Langan Engineering and Environmental Services LLC	PWSID:	Analysis Requested		Job #:
Address: 989 Lenox Drive Suite 124	Due Date Requested:			Preservation Codes: A - HCL
City: Lawrenceville	TAT Requested (days):			
State, Zip: NJ, 08648	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 130117301			
Email: mwenrick@langan.com	WO #:			Other:
Project Name: SMC Lewiston - Annual	Project #: 48024839			
Site: New York	SSOW#:			

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 - VOC custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
R-80-102424	102424	1607	G	Water	N	N	X	3	
IR-80-102424	102424	1618	G	Water	N	N	X	3	
TRIPBLANK	102224	—	—	Water				3	Lab provided
				Water					
				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	Company	Received by	Date/Time	Company
1		102524 1145	Spanish	See pg1		
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	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: 10/10/2024

Login Sample Receipt Checklist

Client: Langan Engineering and Environmental Services LLC

Job Number: 480-224872-1

Login Number: 224872
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	3.1 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.	True	SEVENSON
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

1 University Square Drive Princeton, NJ 08540 T: 609.282.8000
Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Brittney Crisera, Langan Senior Staff Geologist

From: Mariana Wissink, Langan Senior Staff Chemist

Date: March 10, 2025

Re: Data Usability Summary Report
For Stauffer Management Company – O&M and CSM
October 2024 Groundwater Samples
Langan Project No.: 130117301

This memorandum presents the findings of an analytical data validation from the analysis of groundwater samples collected in October 2024 by Sevenson Environmental Services at the Stauffer Management Company – O&M and CSM site. The samples were analyzed by Eurofins located in Buffalo, NY (NYS ELAP Lab ID # 10026) for volatile organic compounds (VOCs) by the method specified below.

- VOCs by SW-846 Method 8260C

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, level of data validation, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedures (SOPs) for Data Validation
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020)
- USEPA Contract Laboratory Program "National Functional Guidelines for Inorganic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. The sample delivery group 480-224872-1 underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA guidelines and our best professional judgment:

R – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.

J – The analyte was positively identified, and the associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.

U – The analyte was analyzed for but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned, these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified because of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified because of minor data-quality anomalies are usable, as qualified in Table 2 (attached).

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. No minor deficiencies were identified.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. The section below describes the other deficiencies that were identified.

VOCs by SW-846 Method 8260C

480-224872-1

The MS/MSD performed on sample EW-2-102324 exhibited percent recoveries above the UCL for carbon tetrachloride (158%, 153%) and tetrachloroethene [PCE] (125%). Organic results are not qualified on the basis of MS/MSD recoveries alone. No qualification is necessary.

The MS performed on sample LR-66-102324 exhibited a percent recovery below the LCL for carbon tetrachloride (68%). Organic results are not qualified based on MS recoveries alone. No qualification is necessary.

The MSD performed on sample EW-3-102324 exhibited a percent recovery above the UCL for carbon tetrachloride (138%). Organic results are not qualified based on MS recoveries alone. No qualification is necessary.

FIELD DUPLICATES:

Three field duplicate and parent sample pairs were collected and analyzed for all parameters. For results less than 5X the RL, analytes meet the precision criteria if the absolute difference is less than ±1X the RL. For results greater than 5X the RL, analytes meet the precision criteria if the RPD is less than or equal to 30% for groundwater. The following field duplicate and parent sample pairs were compared to the precision criteria:

- EW-2-102324-DUP and EW-2-102324
- EW-3-102324-DUP and EW-3-102324
- R-60-102424-DUP and R-60-102424

The field duplicate and parent sample (EW-2-102324-DUP and EW-2-102324) exhibited a RPD above the control limit for carbon disulfide (152%). The associated results are qualified as J because of potential indeterminate bias.

The field duplicate and parent sample (EW-3-102324-DUP and EW-3-102324) exhibited an absolute difference above the RL for carbon disulfide (50 ug/L). The associated results are qualified as J because of potential indeterminate bias.

CONCLUSION:

Based on this evaluation, the laboratory appears to have followed the specified analytical methods except for errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:



Mariana Wissink
Senior Staff Chemist

Data Usability Summary Report
For Stauffer Management Company - O and CSM
October 2024 Groundwater Samples
Table 1: Sample Summary

			Analytical Parameters	VOCs
SDG	**Lab Sample ID**	**Client ID**	**Sample Date**	**SW8260C**
4802248721	480-224872-4	EW-1R-102324	10/23/2024	x
4802248721	480-224872-5	EW-2-102324	10/23/2024	x
4802248721	480-224872-6	EW-2-102324-DUP	10/23/2024	x
4802248721	480-224872-7	EW-3-102324	10/23/2024	x
4802248721	480-224872-8	EW-3-102324-DUP	10/23/2024	x
4802248721	480-224872-9	EW-4-102324	10/23/2024	x
4802248721	480-224872-10	EW-5-102324	10/23/2024	x
4802248721	480-224872-11	EW-6-102324	10/23/2024	x
4802248721	480-224872-12	EW-7-102324	10/23/2024	x
4802248721	480-224872-13	DPA-202-102324	10/23/2024	x
4802248721	480-224872-14	LR-66-102324	10/23/2024	x
4802248721	480-224872-15	OW-3-102324	10/23/2024	x
4802248721	480-224872-16	OW-5-102324	10/23/2024	x
4802248721	480-224872-17	W-67L-102324	10/23/2024	x
4802248721	480-224872-18	R-67-102324	10/23/2024	x
4802248721	480-224872-19	W-67-102324	10/23/2024	x
4802248721	480-224872-20	LR-67-102324	10/23/2024	x
4802248721	480-224872-21	LR-48-102324	10/23/2024	x
4802248721	480-224872-22	R-48-102324	10/23/2024	x
4802248721	480-224872-23	W-19B-102324	10/23/2024	x
4802248721	480-224872-24	R-19-102324	10/23/2024	x
4802248721	480-224872-25	LR-61-102424	10/24/2024	x
4802248721	480-224872-26	LR-51-102424	10/24/2024	x
4802248721	480-224872-27	LR-50-102424	10/24/2024	x
4802248721	480-224872-28	R-68-102424	10/24/2024	x
4802248721	480-224872-29	LR-16-102424	10/24/2024	x
4802248721	480-224872-30	W-16L-102424	10/24/2024	x
4802248721	480-224872-31	R-16-102424	10/24/2024	x
4802248721	480-224872-32	W-16-102424	10/24/2024	x
4802248721	480-224872-33	W-66-102424	10/24/2024	x
4802248721	480-224872-34	W-66L-102424	10/24/2024	x
4802248721	480-224872-35	LR-20-102424	10/24/2024	x
4802248721	480-224872-36	W-20-102424	10/24/2024	x
4802248721	480-224872-37	LR-49-102424	10/24/2024	x
4802248721	480-224872-38	W-65-102424	10/24/2024	x
4802248721	480-224872-39	W-23C-102424	10/24/2024	x
4802248721	480-224872-40	W-70L-102424	10/24/2024	x
4802248721	480-224872-41	W-18L-102424	10/24/2024	x
4802248721	480-224872-42	W-18R-102424	10/24/2024	x
4802248721	480-224872-43	LR-62-102424	10/24/2024	x
4802248721	480-224872-44	R-60-102424	10/24/2024	x
4802248721	480-224872-45	R-60-102424-DUP	10/24/2024	x
4802248721	480-224872-46	R-80-102424	10/24/2024	x
4802248721	480-224872-47	IR-80-102424	10/24/2024	x
4802248721	480-224872-48	TRIP BLANK-20241022	10/22/2024	x

Data Usability Summary Report
For Stauffer Management - OandM and CSM
October 2024 Groundwater Samples
Table 2: Validator-Applied Qualification

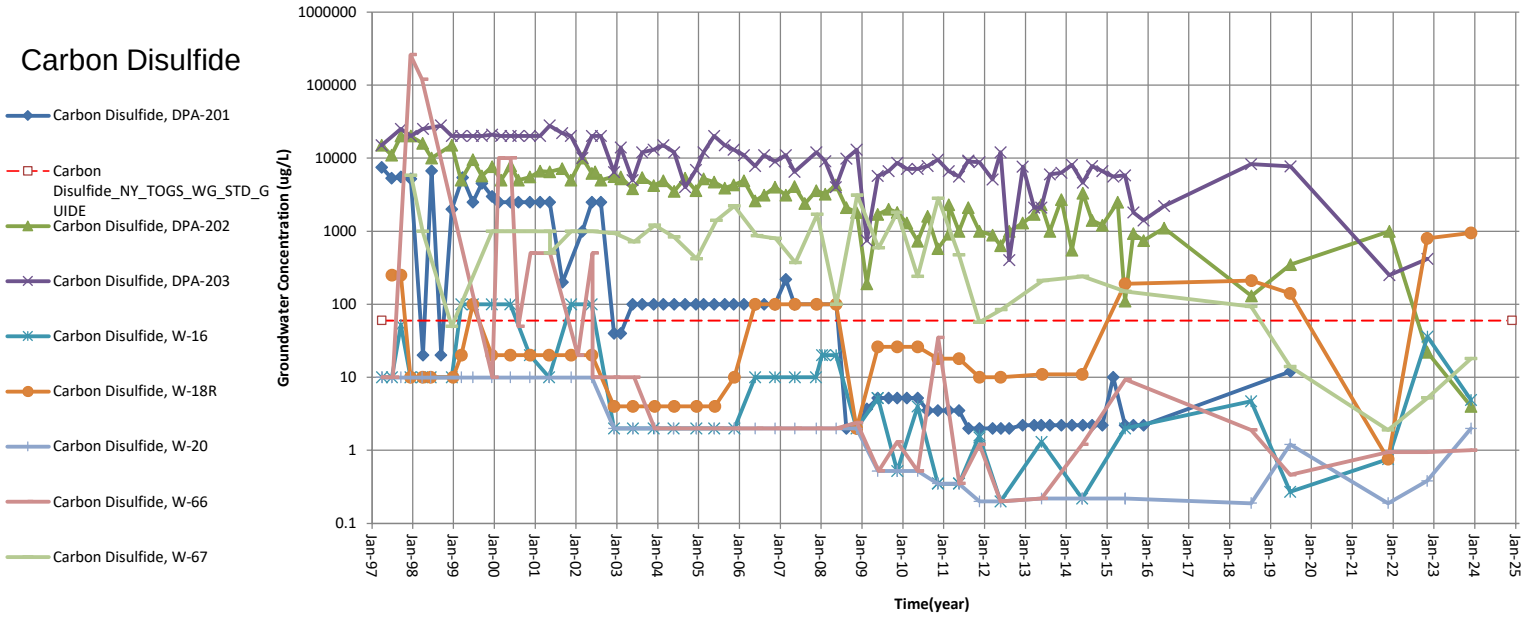
SDG	Client Sample ID	Analysis	CAS #	Total/ Dissolved	Analyte	Validator Qualifier
4802248721	EW-2-102324	SW8260C	75-15-0	Total	Carbon Disulfide	J
4802248721	EW-2-102324-DUP	SW8260C	75-15-0	Total	Carbon Disulfide	J
4802248721	EW-3-102324	SW8260C	75-15-0	Total	Carbon Disulfide	J
4802248721	EW-3-102324-DUP	SW8260C	75-15-0	Total	Carbon Disulfide	J

APPENDIX G

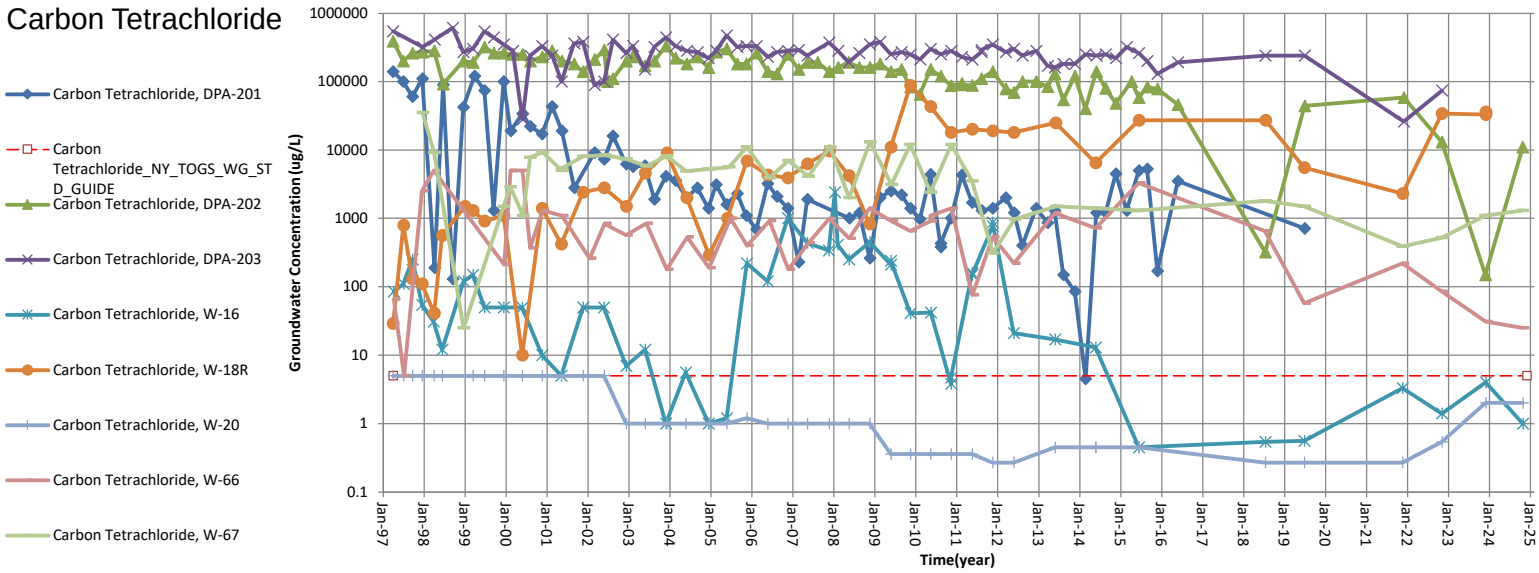
2024 CONCENTRATION TREND GRAPHS

Overburden/Shallow Bedrock

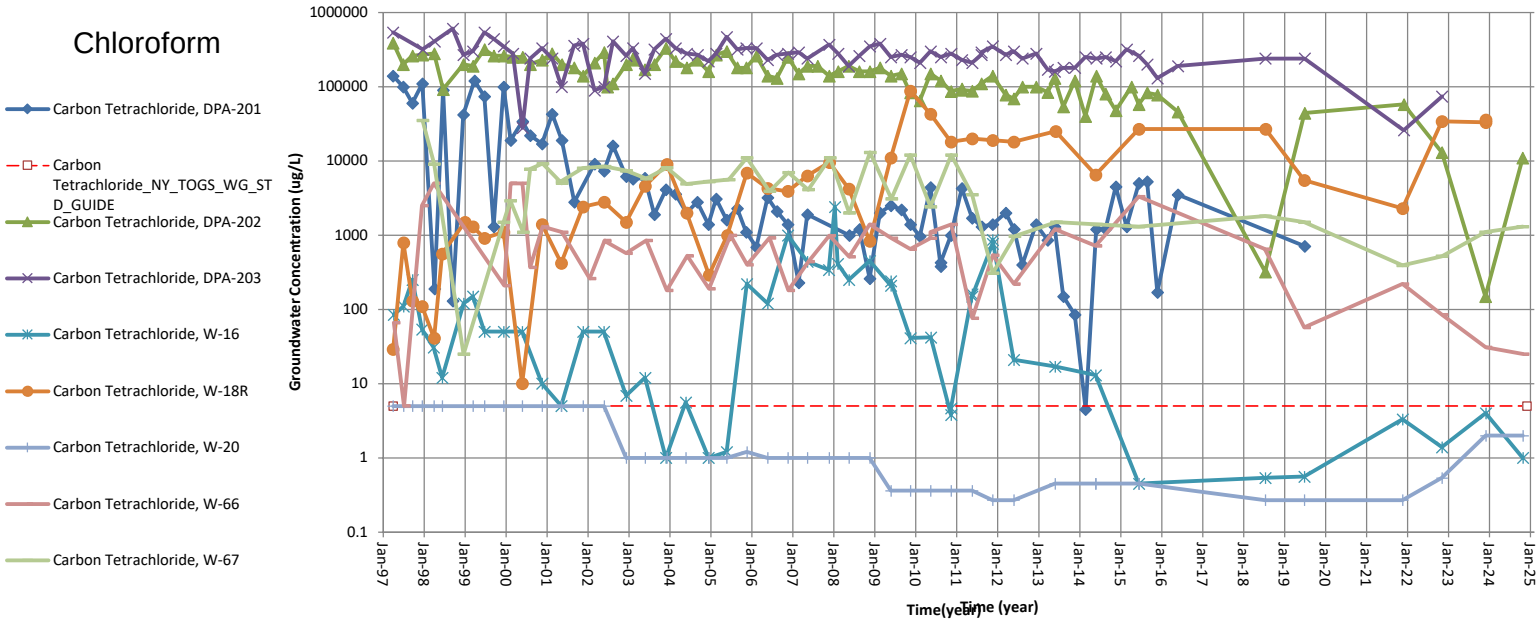
Carbon Disulfide



Carbon Tetrachloride



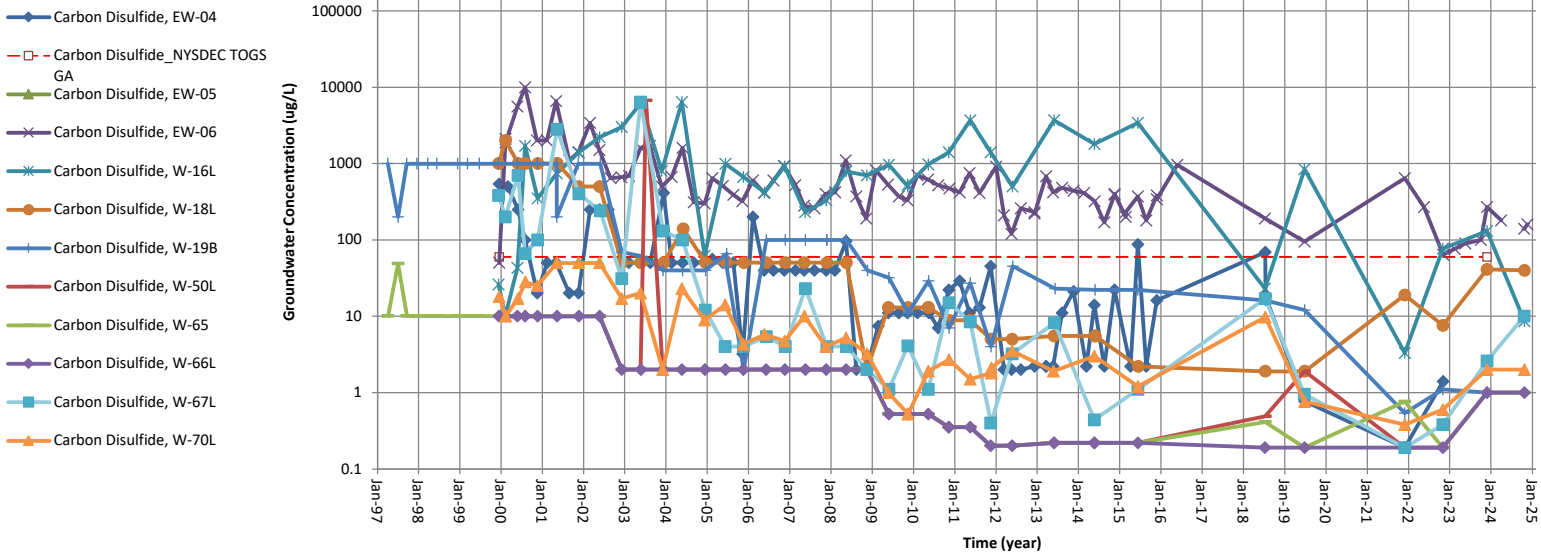
Chloroform



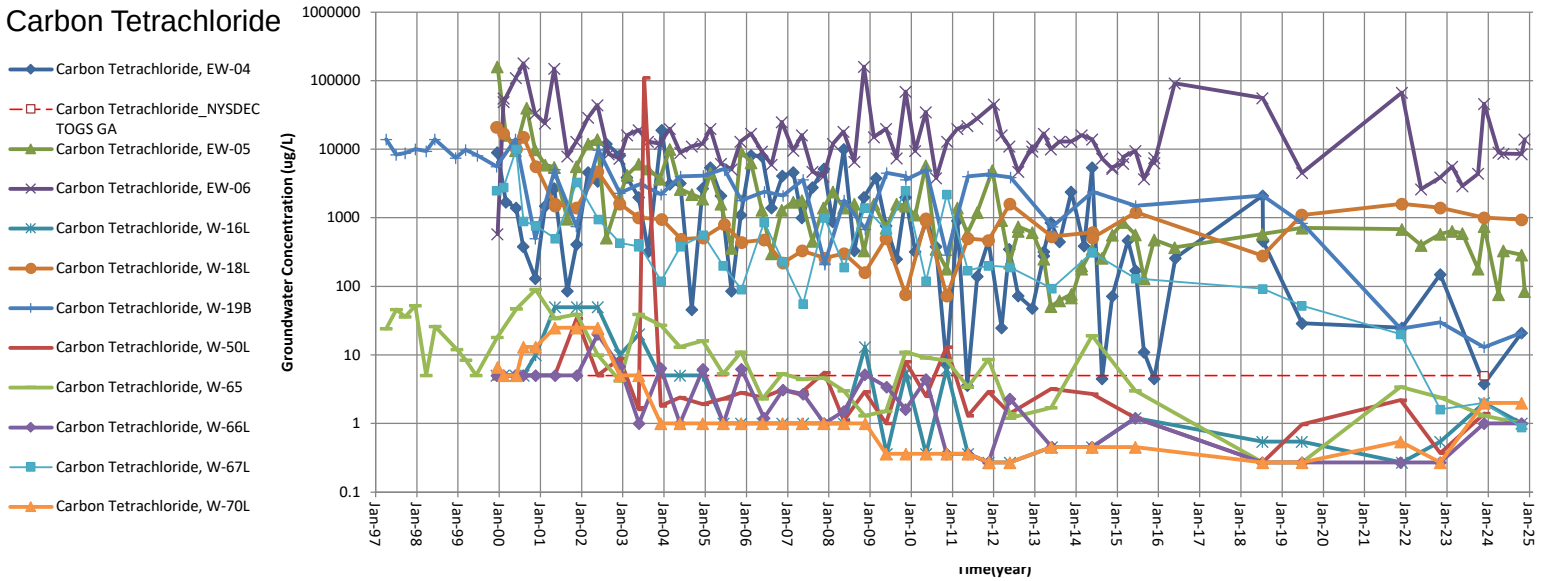
LANGAN 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, NY 10001-2727 T: 212.479.5500 F: 212.479.5444 www.langan.com Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C. Langan International LLC Collectively known as Langan	Project STAUFFER MANAGEMENT COMPANY LEWISTON NIAGARA NEW YORK	Drawing Title CONCENTRATION TRENDS 2024 OVERBURDEN/SHALLOW BEDROCK	Project No. 130117301 Date 05/01/2024 Scale Drawn By D Minnick Submission Date	Figure G-1

Flow Zone 10

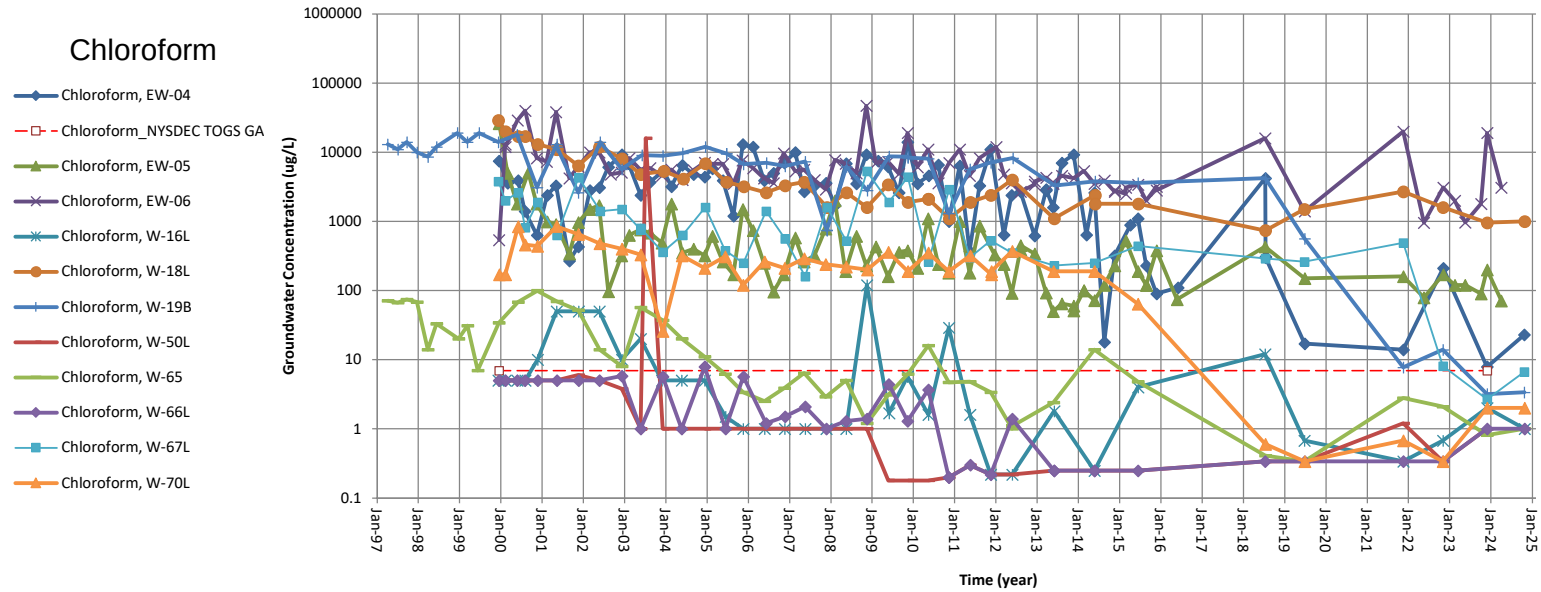
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Carbon Tetrachloride



Chloroform

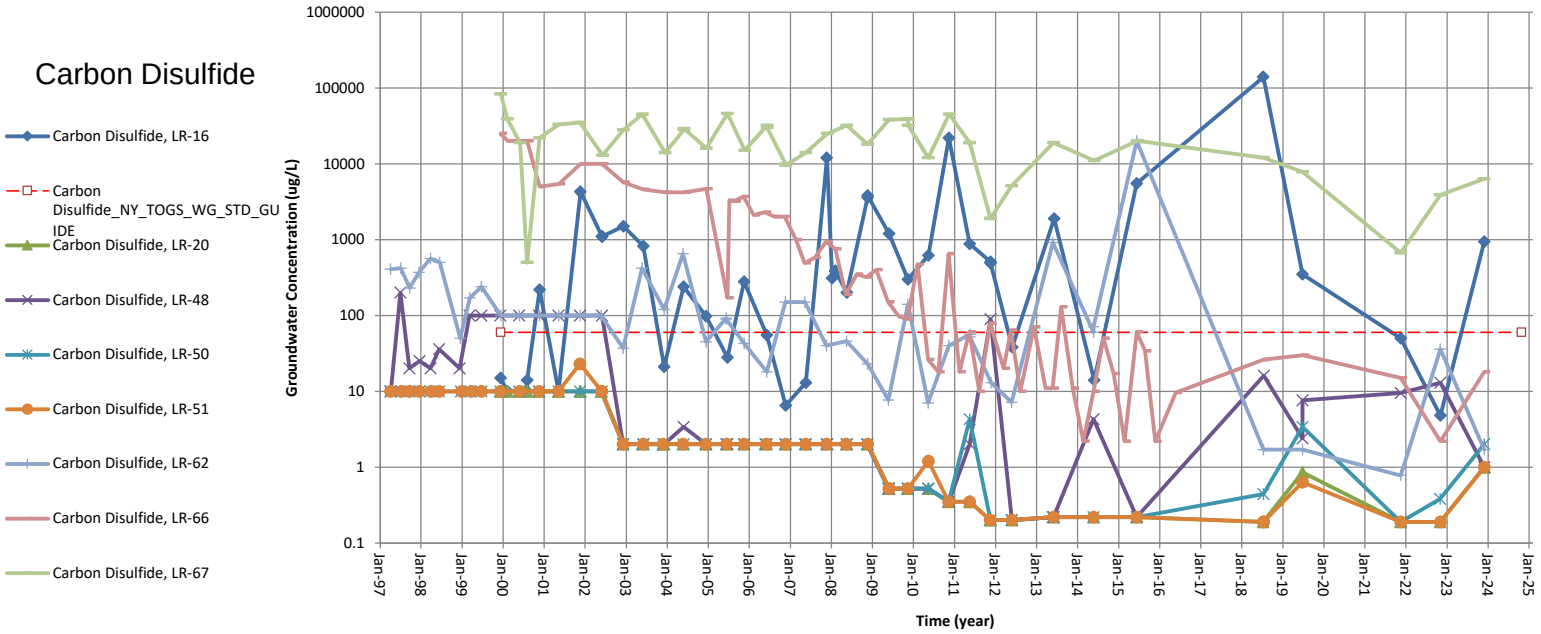


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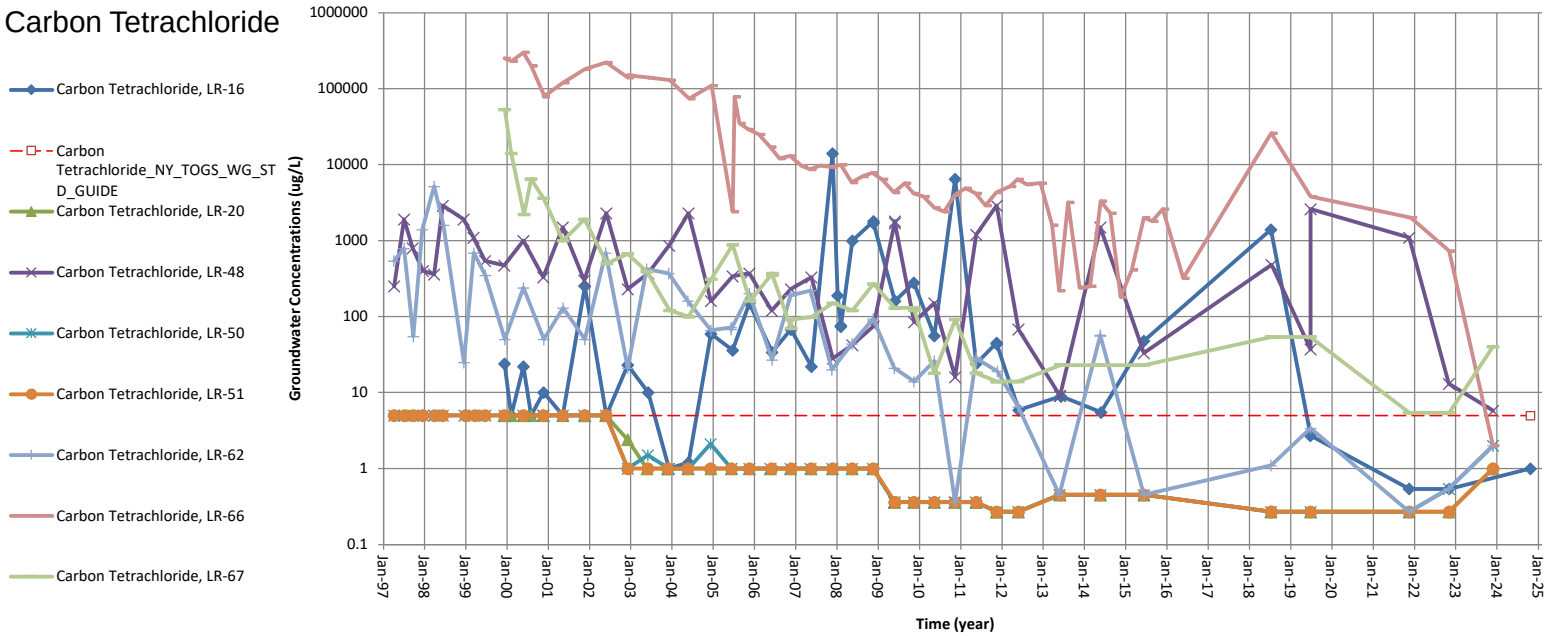
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Drawing Title	CONCENTRATION TRENDS 2024 FLOW ZONE 10
Project No.	130117301
Date	05/01/2024
Scale	
Drawn By	D Minnick
Submission Date	
Figure	G-2

Flow Zone 11

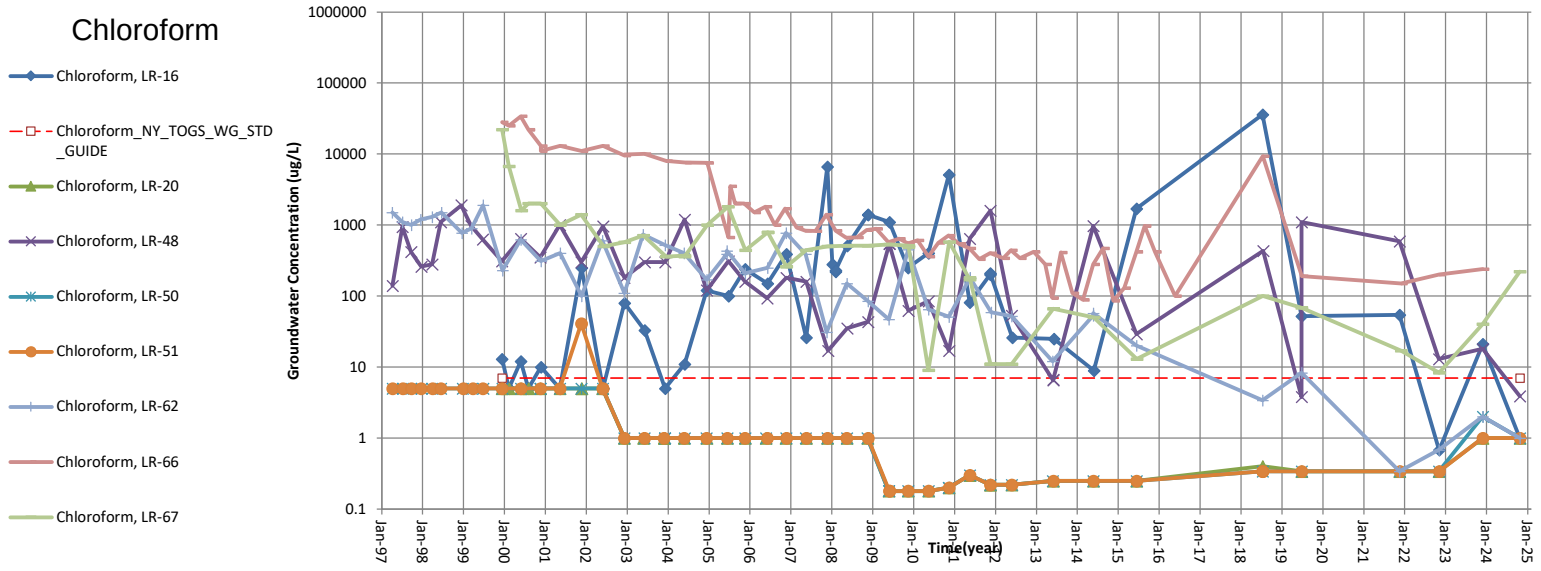
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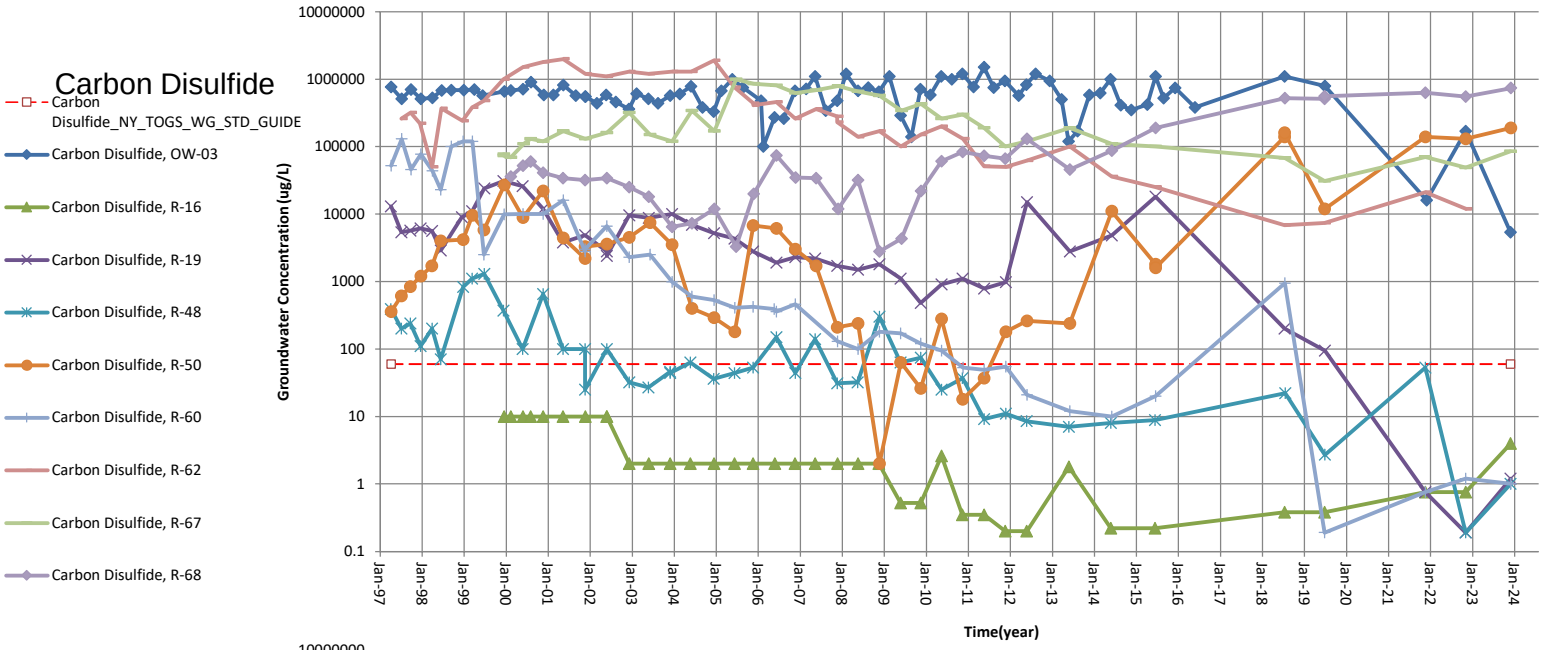
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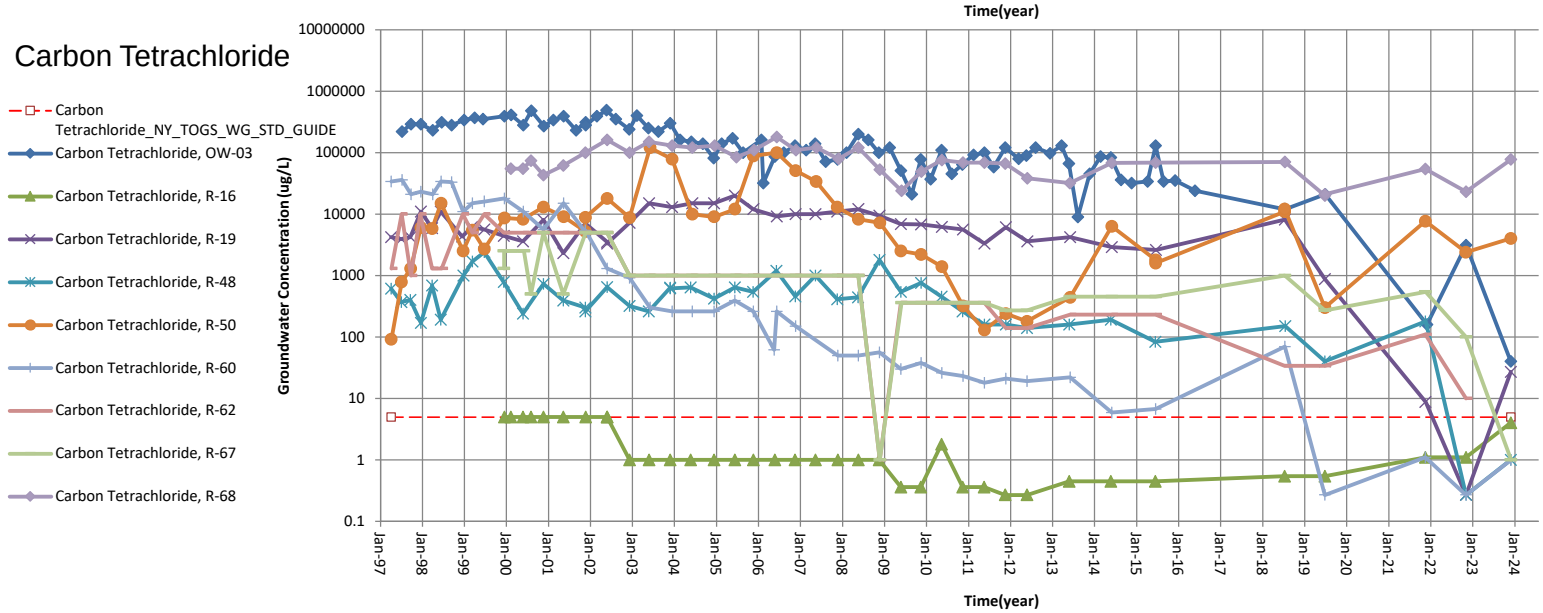
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Flow Zone 12

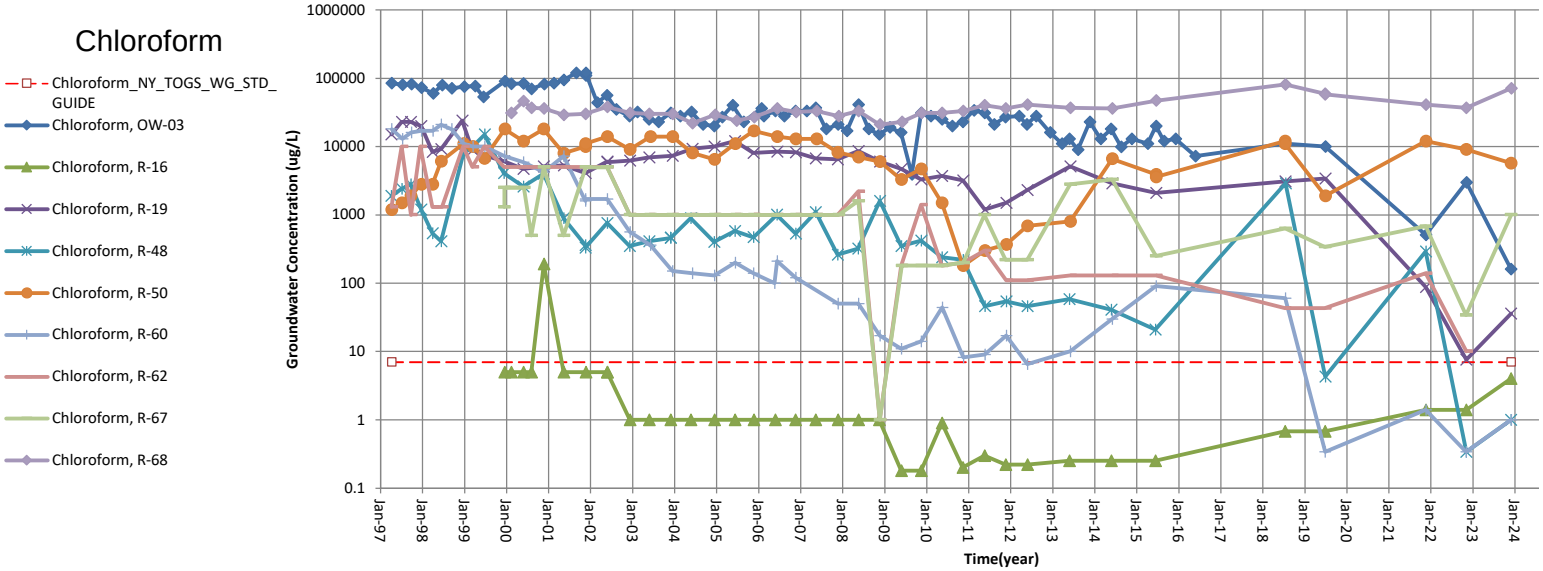
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Carbon Tetrachloride



Chloroform

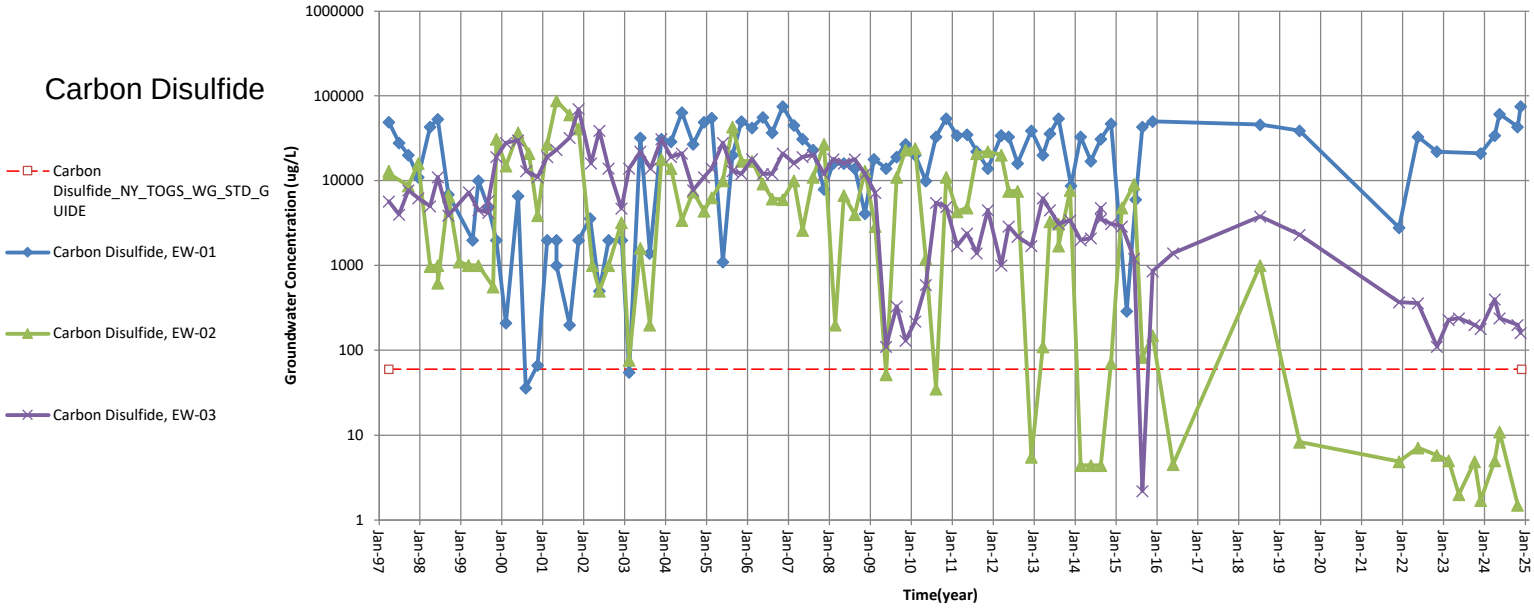


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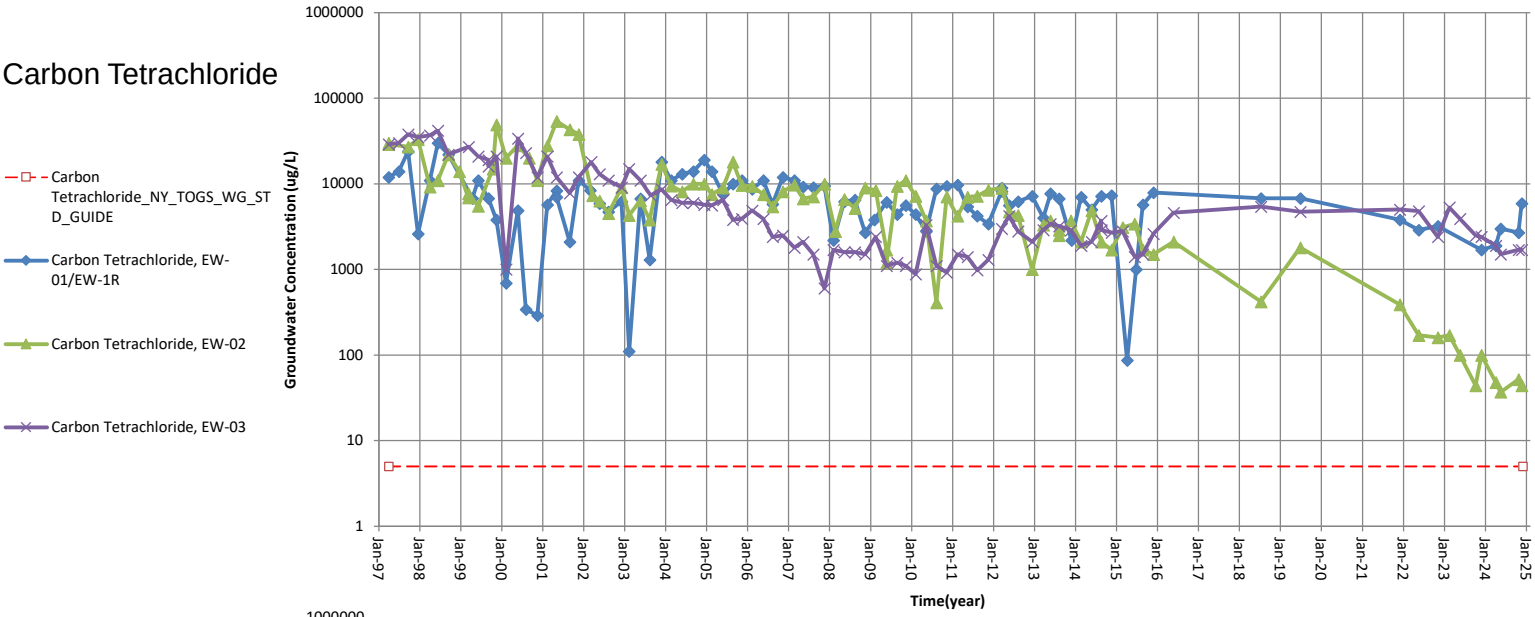
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Drawing Title	CONCENTRATION TRENDS 2024 FLOW ZONE 12
Project No.	130117301
Date	05/01/2024
Scale	
Drawn By	D Minnick
Submission Date	
Figure	G-4

Extraction Wells

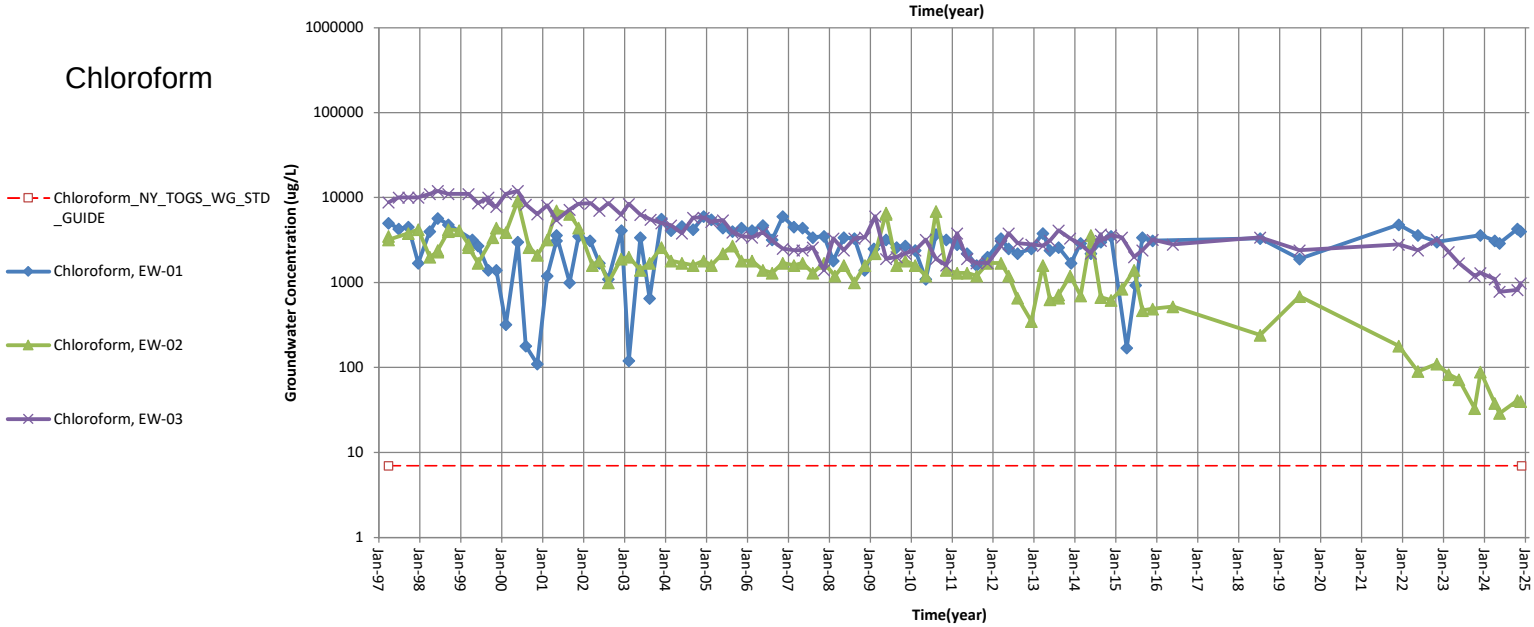
Carbon Disulfide



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Chloroform



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Project	STAUFFER MANAGEMENT COMPANY LEWISTON NIAGARA NEW YORK
Drawing Title	CONCENTRATION TRENDS 2024 EXTRACTION WELLS
Project No.	130117301
Date	05/01/2024
Scale	
Drawn By	D Minnick
Submission Date	
Figure	G-6

APPENDIX H

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. 932053

Site Name Stauffer Chemical Plant-PASNY Site

Site Address: 5715 Lewiston Road Zip Code: 14092
City/Town: Lewiston
County: Niagara
Site Acreage: 22.910

Reporting Period: January 01, 2024 to December 31, 2024

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

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative

04/29/2025
Date

SITE NO. 932053 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
115.00-1-10	Stauffer Management Company LLC	Ground Water Use Restriction
		Soil Management Plan
		Landuse Restriction
		Building Use Restriction
		Monitoring Plan
		Site Management Plan
		O&M Plan
		IC/EC Plan

Environmental Easement recorded with the Niagara County Clerk's office on September 3, 2015. The property may only be used for commercial or industrial use. The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use. Vegetable gardens and farming on the property are prohibited. The potential for vapor intrusion must be evaluated for any buildings developed at the Site.

New York State Department of Environmental Conservation (NYSDEC) Consent Order (CO) #B9-0137-86-04, effective July 19, 2004.

Site Management Plan (which includes an IC/EC Plan, Excavation Work Plan, HASP, CAMP, and O&M Plan) approved June 3, 2021.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
115.00-1-10	Groundwater Treatment System
	Cover System
	Groundwater Containment
	Fencing/Access Control
	Leachate Collection
	Monitoring Wells

Groundwater extraction, conveyance and onsite treatment. Hydraulic and groundwater quality monitoring.

Site is fenced with access control.

Site grading and vegetative cover.

Box 5

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☑	☐

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

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

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

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

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

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

YES	NO
☑	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

04/29/2025

Date

IC CERTIFICATIONS
SITE NO. 932053

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Sean Scanlon on behalf of Stauffer Management Company, LLC at 1800 Concord Pike, A2C Wilmington, DE 19850,
print name print business address

am certifying as Owner (Owner or Remedial Party)

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

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

04/29/2025
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Matthew Ambrusch (print name) at Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, DPC 360 West 31st St., New York, NY 10001 (print business address),

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



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		04/30/2025

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

2025-04 Lewiston 2024 IC-EC Certification

Final Audit Report 2025-04-30

Created:	2025-04-29 (Eastern European Summer Time)
By:	Sean Scanlon (sean.scanlon1@astrazeneca.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAnt429BOXdOeSaCMw-qlql8NLt-u8W1qr

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